



# 2024 Small Grain and Grain Legume Report

Northern Idaho Small Grain and Grain Legume  
Research and Extension Program

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**University of Idaho**  
College of Agricultural and Life Sciences

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

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### **Cover Image**

Plot combine purchased with support from the Idaho Wheat Commission. The photo was taken at the winter wheat variety trial north of Tensed, Idaho.

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

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Idaho Wheat Commission  
USA Dry Pea and Lentil Council  
Idaho Barley Commission

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Tim Dillin – Bonners Ferry  
Houck Family Farms – Bonners Ferry  
Eric Odberg – Genesee  
Brett Poxleitner – Genesee  
Clark Tacke – Greencreek  
Cliff Tacke – Greencreek  
Brent Uhlorn – Cottonwood  
Darrell Uhlorn – Cottonwood  
Neil Uptmor – Lewiston  
Clint Zenner – Genesee  
Devon Zenner – Nezperce

### **Industry and Public Cooperators**

|                               |                             |
|-------------------------------|-----------------------------|
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| CHS Primeland                 | Pulse Genetics              |
| Highland Specialty Grains     | The McGregor Company        |
| Limagrain Cereal Seeds        | University of Idaho         |
| Meridian Seeds                | USDA-ARS                    |
| Montana State University      | Valesco Genetics            |
| North Dakota State University | Washington State University |
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#### Disclaimer Statement:

Note that the information contained in this publication is ongoing research and the data presented is preliminary for many of the entries tested. As further data is gathered over the next several years, information on variety performance may change. Pesticides used in this study are for research purposes and not intended as recommendations for the various crops. Always read and follow instructions printed on the pesticide label before making any applications. Pesticide laws and labels change and information in this publication may be outdated.

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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 and advanced breeding lines tested in Extension variety trials conducted in northern Idaho during the 2023–24 crop season. The variety trials were located in cooperators' fields in Idaho, Lewis, Nez Perce, Latah, Benewah, and Boundary Counties and on the University of Idaho Palouse Research, Extension and Education Center farms in Moscow (Parker Farm) and Genesee (Kambitsch Farm). Specific trial locations and management practices used at each of the trial locations are listed in Table 1.

Plant breeding programs strive to increase yield potential through enhanced disease and insect resistance, winter hardiness, drought tolerance, straw strength, and other agronomic factors. In addition, varieties are developed for improved end-use quality and new markets. 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 information provided 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 2023 and five spring cereal trials were planted in the spring of 2024. 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 1,000 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 5.0 fl oz/100 lbs seed plus Sharda 1.0 fl oz/100 lbs seed. Plots in tilled fields were seeded using a double-disc opener with 7 rows spaced 7 in apart. Direct-seeded trials had five paired rows with 3 in spacing and 10 in 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 in depending on soil texture and moisture conditions. At each location, each variety entry was replicated four times in a randomized complete block design. All plots were seeded 20 ft long and after plants were well established, the plots were cut back to a length of 15 ft with an application of glyphosate herbicide 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 a standard 60 lbs/bu conversion factor for wheat and 48 lbs/bu for barley. For barley samples, the percentage of plump

and thins was determined by passing a 250 g sample of cleaned seed through a 6/64 in and 5.5/64 in slotted screen. The sample was shaken for 60 sec on a strand sizer shaker (Seedburo Equip., Chicago, IL). Plump seeds were collected on top of the slotted screens and the thins were the portion of the sample that went through a 5.5/64 in slotted screen. Wheat and barley whole grain protein at 12% moisture was measured at the University of Idaho Wheat Quality Laboratory at Aberdeen using Near Infrared Spectrometry (NIRS) technology. For wheat and barley seed, a single composite sample was analyzed for each variety at each location.

### **Legume Test Procedures**

In the fall of 2023, two winter pea trials were established using a seeding rate of 10 spsf. In the spring of 2024, spring pea, lentil, and chickpea trials were seeded near Ferdinand and Moscow. For each legume variety, 1,000 seeds were weighed and seeding rates calculated to provide 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 Apron XL (0.21 oz/cwt), Maxim XL (0.22 oz/cwt), Cruiser (1 oz/cwt), Vayantis (0.1 oz/cwt), and molybdenum (0.44 oz/cwt) mix; and chickpea seed was treated with Apron XL (0.22 oz/cwt), Vibrance (0.22 oz/cwt), Maxim (0.06 oz/cwt), Rancona (0.1 oz/cwt), Cruiser (1.4 oz/cwt), Seed Start Zinc (3 oz/cwt), and molybdenum (0.66 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 reduced to 15 ft plots using glyphosate. Planting depths were approximately 1 in for lentils and between 1 in to 2 in for pea and chickpea. Winter pea plots were seeded to a depth of 2.5–3 in. Due to wider spacing between plots, chemical weed control was supplemented with hand weeding when necessary. Trial locations and pesticides used in the trials are listed in Table 1 for the sites where the information was provided. During the growing season legumes were evaluated for flowering date, which was defined as the point at which 50% of the plants had flowers that were completely open. Prior to senescence, plots were evaluated to determine vine length (pea) or plant height (lentil and chickpea) by measuring from the soil surface to the end of the growing point on the main stem. Immediately prior to harvest, canopy height was measured and plant height index (PHI) was calculated by dividing the canopy height by the vine length or plant height. This index gives an indication of how well a variety retains its stature at harvest, with higher numbers indicating better height retention. At harvest, seed yield, test weight (when there was sufficient seed quantity), and 100-seed weight were determined. Chickpea seed was evaluated for size by shaking 250 g of seed through screens that included 25/64", 22/64", and 20/64".

### **Varieties Included in Trials**

A summary of released varieties tested during the 2023–24 growing season is shown in Table 2. When the information is available, this table also lists the previous experimental name for each variety along with the release year and company or agency that released or owns the variety.

### **Statistical Interpretation**

Data in the tables are sorted by yield with the highest-yielding entries listed first. The overall trial average is shown at the bottom of each table. The Fishers's least significant difference (LSD) and the coefficient of variation (CV) are listed. The LSD is given at the 5% 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 other observations from grower experience can be used in deciding which variety to plant. Crop performance is impacted by many variables, including seasonal variation in temperature and precipitation, disease incidence and severity, local environment, seeding date, fertility, and many others. Variety performance in a given year is not necessarily indicative of how a particular variety will perform over multiple growing seasons, so caution should be taken when looking at the results from a single growing season. Therefore, it is recommended that when available, multiyear yield performance data be considered when selecting new varieties for production. Variety performance data from previous years for northern Idaho and other regions of the state can be viewed at the website [www.uidaho.edu/extension/cereals](http://www.uidaho.edu/extension/cereals).

**Table 1. Trial locations and management information for the 2023–24 Northern Idaho Extension variety trials.**

| County                                                                                          | Nursery Location     | Rainfall      | Elevation (feet) | Production System | Planting Date | Harvest Date | Previous Crop | Fertilizer N-P-K-S (lb/A)*      | ----- Chemical -----                                                     |                                                                                         |
|-------------------------------------------------------------------------------------------------|----------------------|---------------|------------------|-------------------|---------------|--------------|---------------|---------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
|                                                                                                 |                      | Zone (inches) |                  |                   |               |              |               |                                 | Product Name                                                             | Rate                                                                                    |
| <b>Winter Cereals - Soft White Winter Wheat and Herbicide Resistant Soft White Winter Wheat</b> |                      |               |                  |                   |               |              |               |                                 |                                                                          |                                                                                         |
| Boundary                                                                                        | Bonnars Ferry        | 25"           | 1750'            | Direct Seed       | 9/18/23       | 8/1/24       | Canola        | 77-37-22-10 (f)<br>35-0-0-0 (s) | PowerFlex<br>Affinity Broadspec<br>Nexicor                               | 2 fl oz/A<br>0.4 fl oz/A<br>13 fl oz/A                                                  |
| Nez Perce                                                                                       | Genesee              | 20"           | 2800'            | Direct Seed       | 10/04/23      | 7/26/24      | Chickpea      | 98-32-0-20 (f)                  | Huskie<br>Clean Slate<br>Tilt<br>Micro1000                               | 16 fl oz/A<br>4.6 fl oz/A<br>4.6 fl oz/A<br>1 qt/A                                      |
| Nez Perce                                                                                       | Lewiston             | 14"           | 1715'            | Reduced Tillage   | 10/13/23      | 7/17/24      | Fallow        | 120-25-0-20 +<br>10 lb Cl (f)   | Osprey Xtra<br>Affinity BroadSpec<br>Huskie FX<br>Slant<br>Veltyma       | 4.7 fl oz/A<br>0.4 fl oz/A<br>15 fl oz/A<br>2 fl oz/A<br>4 fl oz/A                      |
| Latah                                                                                           | Moscow (Parker Farm) | 27"           | 2600'            | Tilled            | 10/6/23       | 8/15/24      | Pea           | 100-32-0-20 (f)                 | Huskie<br>Orion                                                          | 12 fl oz/A<br>17fl oz/A                                                                 |
| Lewis                                                                                           | Nez Perce            | 22"           | 3300'            | Direct Seed       | 9/20/23       | 8/20/24      | Winter pea    | 100-32-0-20 (f)                 | Anthem Flex<br>Talinor<br>Osprey Xtra<br>Quelex<br>Serpent 1 EC<br>Slant | 3.2 fl oz/A<br>18.9 fl oz/A<br>4.7 fl oz/A<br>0.7 fl oz/A<br>3.8 fl oz/A<br>3.9 fl oz/A |
| Benewah                                                                                         | Tensed               | 27"           | 2600'            | Reduced Tillage   | 9/19/23       | 8/21/24      | Lentil        | 120-32-0-22 (f)                 | BMP**                                                                    | BMP**                                                                                   |

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

\*\* Best management practice.

**Table 1 (continued). Trial locations and management information for the 2023–24 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> |                          |                        |                  |                   |               |              |               |                                            |                                                                          |                                                                                         |
| Boundary                                         | Bonniers Ferry           | 25"                    | 1750'            | Direct Seed       | 9/18/23       | 8/1/24       | Canola        | 77-37-22-10 (f)<br>75-0-0-0 (s)            | PowerFlex<br>Affinity Broadspec<br>Nexicor                               | 2 fl oz/A<br>0.4 fl oz/A<br>13 fl oz/A                                                  |
| Nez Perce                                        | Genesee                  | 20"                    | 2700'            | Direct Seed       | 10/04/23      | 7/26/24      | Chickpea      | 98-32-0-20 (f)<br>40-0-0-0 (s)             | Huskie<br>Clean Slate<br>Tilt<br>Micro1000                               | 16 fl oz/A<br>4.6 fl oz/A<br>4.6 fl oz/A<br>1 qt/A                                      |
| Nez Perce                                        | Lewiston                 | 14"                    | 1715'            | Reduced Tillage   | 10/13/23      | 7/17/24      | Fallow        | 120-25-0-20 + 10 lb Cl (f)<br>40-0-0-0 (s) | Osprey Xtra<br>Affinity BroadSpec<br>Huskie FX<br>Slant<br>Veltyrna      | 4.7 fl oz/A<br>0.4 fl oz/A<br>15 fl oz/A<br>2 fl oz/A<br>4 fl oz/A                      |
| Latah                                            | Moscow (Parker Farm)     | 27"                    | 2600'            | Tilled            | 10/6/23       | 8/15/24      | Pea           | 100-32-0-20 (f)<br>40-0-0-0 (s)            | Husky<br>Orion                                                           | 12 fl oz/A<br>17fl oz/A                                                                 |
| Lewis                                            | Nezperce                 | 22"                    | 3300'            | Direct Seed       | 9/20/23       | 8/20/24      | Winter pea    | 100-32-0-20 (f)<br>40-0-0-0 (s)            | Anthem Flex<br>Talinor<br>Osprey Xtra<br>Quelex<br>Serpent 1 EC<br>Slant | 3.2 fl oz/A<br>18.9 fl oz/A<br>4.7 fl oz/A<br>0.7 fl oz/A<br>3.8 fl oz/A<br>3.9 fl oz/A |
| Benewah                                          | Tensed                   | 27"                    | 2600'            | Direct Seed       | 9/19/23       | 8/21/24      | Lentil        | 120-32-0-22 (f)<br>40-0-0-0 (s)            | BMP**                                                                    | BMP**                                                                                   |
| <b><u>Winter Cereals – Winter Barley</u></b>     |                          |                        |                  |                   |               |              |               |                                            |                                                                          |                                                                                         |
| Latah                                            | Genesee (Kambitsch Farm) | 22'                    | 2800'            | Tilled            | 9/25/23       | 7/19/24      | Pea           | 100-30-0-20 (f)                            | Axial Bold<br>Huskie<br>Orion<br>Nexicor                                 | 16 fl oz/A<br>12 fl oz/A<br>17 fl oz/A<br>5 fl oz/A                                     |

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

\*\* Best management practice.

**Table 1 (continued). Trial locations and management information for the 2023–24 Northern Idaho Extension variety trials.**

| Table 1 (continued): Trial Locations and Management Information for the 2023 ID 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>                                                                        |                  |                        |                  |                   |               |              |               |                            |                                          |                                                     |
| Latah                                                                                                                   | Genesee          | 22"                    | 2800'            | Tilled            | 4/15/24       | 8/26/24      | W. Wheat      | 100-30-0-20                | Huskie<br>Orion<br>Axial Bold<br>Nexicor | 12 fl oz/A<br>17 fl oz/A<br>15 fl oz/A<br>5 fl oz/A |
| Idaho                                                                                                                   | Greencreek       | 22"                    | 3100'            | Direct Seed       | 4/12/24       | 8/27/24      | W. Wheat      | 90-30-0-20                 | Axial Bold<br>WideMatch<br>Dagger        | 15 fl oz/A<br>18 fl oz/A<br>8 fl oz/A               |
| <b><u>Spring Cereals - Hard Spring Wheat</u></b>                                                                        |                  |                        |                  |                   |               |              |               |                            |                                          |                                                     |
| Latah                                                                                                                   | Genesee          | 22"                    | 2800'            | Tilled            | 4/15/24       | 8/26/24      | W. Wheat      | 125-30-0-20                | Huskie<br>Orion<br>Axial Bold<br>Nexicor | 12 fl oz/A<br>17 fl oz/A<br>15 fl oz/A<br>5 fl oz/A |
| Idaho                                                                                                                   | Greencreek       | 22"                    | 3100'            | Direct Seed       | 4/12/24       | 8/27/24      | W. Wheat      | 125-30-0-20                | Axial Bold<br>WideMatch<br>Dagger        | 15 fl oz/A<br>18 fl oz/A<br>8 fl oz/A               |
| <b><u>Spring Cereals – Spring Barley</u></b>                                                                            |                  |                        |                  |                   |               |              |               |                            |                                          |                                                     |
| Boundary                                                                                                                | Bonniers Ferry   | 25"                    | 1750'            | Reduced tillage   | 4/16/24       | 9/4/24       | W. Wheat      | 65-30-12-20                | Axial Star<br>WideMatch<br>Nexicor       | 16.4 fl oz/A<br>16 fl oz/A<br>13 fl oz/A            |
| Nez Perce                                                                                                               | Genesee          | 20"                    | 2650'            | Direct Seed       | 4/15/24       | 7/31/24      | W. Wheat      | 90-30-0-20                 | Axial Bold<br>Talinor<br>Tilt            | 15 fl oz/A<br>18.2 fl oz/A<br>4 fl oz/A             |
| Idaho                                                                                                                   | Greencreek       | 22"                    | 3650'            | Direct Seed       | 4/12/24       | 8/27/24      | W. Wheat      | 90-30-0-20                 | Axial Bold<br>WideMatch<br>Dagger        | 15 fl oz/A<br>18 fl oz/A<br>8 fl oz/A               |

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

**Table 1 (continued). Trial locations and management information for the 2023–24 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         |
| <u>Legumes - Winter Peas</u> |                      |                        |                  |                   |               |              |               |                            |                        |              |
| Idaho                        | Greencreek           | 22"                    | 3650'            | Direct Seed       | 9/28/23       | 7/29/24      | W. Wheat      | None                       | Sharpen (PreEm)        | 2 fl oz/A    |
|                              |                      |                        |                  |                   |               |              |               |                            | Sparten Charge (PreEm) | 5 fl oz/A    |
|                              |                      |                        |                  |                   |               |              |               |                            | Tricor (PreEm)         | 4 fl oz/A    |
|                              |                      |                        |                  |                   |               |              |               |                            | RT3 (PreEm)            | 32 fl oz/A   |
|                              |                      |                        |                  |                   |               |              |               |                            | Clethodim              | 8 fl oz/A    |
|                              |                      |                        |                  |                   |               |              |               |                            | Carbaryl 4L            | 1.5 qt/A     |
|                              |                      |                        |                  |                   |               |              |               |                            | Warrior II             | 1.92 fl oz/A |
|                              |                      |                        |                  |                   |               |              |               |                            | Carbaryl 4L            | 1.5 qt/A     |
|                              |                      |                        |                  |                   |               |              |               |                            | Bifenture              | 6.4 fl oz/A  |
| Latah                        | Moscow (Parker Farm) | 27"                    | 2600'            | Direct Seed       | 10/2/23       | 8/2/24       | S. Barley     | None                       | Sharpen (PreEm)        | 2 fl oz/A    |
|                              |                      |                        |                  |                   |               |              |               |                            | Sparten Charge (PreEm) | 5 fl oz/A    |
|                              |                      |                        |                  |                   |               |              |               |                            | Tricor (PreEm)         | 4 fl oz/A    |
|                              |                      |                        |                  |                   |               |              |               |                            | RT3 (PreEm)            | 32 fl oz/A   |
|                              |                      |                        |                  |                   |               |              |               |                            | Clethodim              | 8 fl oz/A    |
|                              |                      |                        |                  |                   |               |              |               |                            | Carbaryl 4L            | 1.5 qt/A     |
|                              |                      |                        |                  |                   |               |              |               |                            | Warrior II             | 1.92 fl oz/A |
|                              |                      |                        |                  |                   |               |              |               |                            | Carbaryl 4L            | 1.5 qt/A     |
|                              |                      |                        |                  |                   |               |              |               |                            | Warrior II             | 1.92 fl oz/A |
|                              |                      |                        |                  |                   |               |              |               |                            | Bifenture              | 6.4 fl oz/A  |

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

\*\* PreEm = Post-plant, pre-emergence

**Table 1 (continued). Trial locations and management information for the 2023–24 Northern Idaho Extension variety trials.**

| Table 1 (Continued): Trial locations and management information for the 2023-24 Northern Idaho 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>                                                                           |                  |                        |                  |                   |               |              |               |                            |                |        |
| Idaho                                                                                                         | Ferdinand        | 22"                    | 3600'            | Direct Seed       | 4/23/2024     | 8/14/24      | W. Wheat      | Tricor (PreEm)             | 8 fl oz/A      |        |
|                                                                                                               |                  |                        |                  |                   |               |              |               | Valor (PreEm)              | 2 fl oz/A      |        |
|                                                                                                               |                  |                        |                  |                   |               |              |               | Sharpen (PreEm)            | 2 fl oz/A      |        |
|                                                                                                               |                  |                        |                  |                   |               |              |               | RT3 (PreEm)                | 32 fl oz/A     |        |
|                                                                                                               |                  |                        |                  |                   |               |              |               | Clethodim                  | 12 fl oz/A     |        |
|                                                                                                               |                  |                        |                  |                   |               |              |               | Warrior II                 | 1.92 fl oz/A   |        |
|                                                                                                               |                  |                        |                  |                   |               |              |               | Carbaryl 4L                | 1.5 qt/A       |        |
| Nez Perce                                                                                                     | Genesee          | 20"                    | 2500'            | Direct Seed       | 4/18/24       | 8/16/24      | S. Barley     | Tricor (PreEm)             | 8 fl oz/A      |        |
|                                                                                                               |                  |                        |                  |                   |               |              |               | Valor (PreEm)              | 2 fl oz/A      |        |
|                                                                                                               |                  |                        |                  |                   |               |              |               | Sharpen (PreEm)            | 2 fl oz/A      |        |
|                                                                                                               |                  |                        |                  |                   |               |              |               | RT3 (PreEm)                | 32 fl oz/A     |        |
|                                                                                                               |                  |                        |                  |                   |               |              |               | Assure II                  | 12 fl oz/A     |        |
|                                                                                                               |                  |                        |                  |                   |               |              |               | Warrior II                 | 1.92 fl oz/A   |        |
|                                                                                                               |                  |                        |                  |                   |               |              |               | Carbaryl 4L                | 1.5 qt/A       |        |
| <b><u>Legumes – Spring Lentils</u></b>                                                                        |                  |                        |                  |                   |               |              |               |                            |                |        |
| Idaho                                                                                                         | Ferdinand        | 22"                    | 3600'            | Direct Seed       | 4/23/24       | 8/14/24      | W. Wheat      | Tricor (PreEm)             | 4 fl oz/A      |        |
|                                                                                                               |                  |                        |                  |                   |               |              |               | RT3 (PreEm)                | 32 fl oz/A     |        |
|                                                                                                               |                  |                        |                  |                   |               |              |               | Assure II                  | 12 fl oz/A     |        |
| Nez Perce                                                                                                     | Genesee          | 20"                    | 2500'            | Direct Seed       | 4/18/24       | 8/16/24      | S. Barley     | Tricor (PreEm)             | 4 fl oz/A      |        |
|                                                                                                               |                  |                        |                  |                   |               |              |               | RT3 (PreEm)                | 32 fl oz/A     |        |
|                                                                                                               |                  |                        |                  |                   |               |              |               | Assure II                  | 12 fl oz/A     |        |
| <b><u>Legumes – Chickpeas</u></b>                                                                             |                  |                        |                  |                   |               |              |               |                            |                |        |
| Idaho                                                                                                         | Ferdinand        | 22"                    | 3600'            | Direct Seed       | 4/23/24       | 9/5/24       | W. Wheat      | Tricor (PreEm)             | 8 fl oz/A      |        |
|                                                                                                               |                  |                        |                  |                   |               |              |               | Valor (PreEm)              | 2 fl oz/A      |        |
|                                                                                                               |                  |                        |                  |                   |               |              |               | Sharpen (PreEm)            | 2 fl oz/A      |        |
|                                                                                                               |                  |                        |                  |                   |               |              |               | RT3 (PreEm)                | 32 fl oz/A     |        |
|                                                                                                               |                  |                        |                  |                   |               |              |               | Assure II                  | 12 fl oz/A     |        |
| Nez Perce                                                                                                     | Genesee          | 20"                    | 2500'            | Direct Seed       | 4/18/24       | 9/5/24       | S. Barley     | Tricor (PreEm)             | 8 fl oz/A      |        |
|                                                                                                               |                  |                        |                  |                   |               |              |               | Valor (PreEm)              | 2 fl oz/A      |        |
|                                                                                                               |                  |                        |                  |                   |               |              |               | Sharpen (PreEm)            | 2 fl oz/A      |        |
|                                                                                                               |                  |                        |                  |                   |               |              |               | RT3 (PreEm)                | 32 fl oz/A     |        |
|                                                                                                               |                  |                        |                  |                   |               |              |               | Assure II                  | 12 fl 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 2023–24.**

| <b>Variety</b>                        | <b>Experimental No.</b> | <b>Year Released</b> | <b>Developer(s) or Owner of Variety</b>   |
|---------------------------------------|-------------------------|----------------------|-------------------------------------------|
| <b><u>Soft White Winter Wheat</u></b> |                         |                      |                                           |
| AP Exceed                             | 11PN039#20              | 2020                 | AgriPro /Syngenta                         |
| AP Iliad                              | 11PN044#84              | 2020                 | AgriPro /Syngenta                         |
| AP Olympia                            | --                      | 2023                 | AgriPro /Syngenta                         |
| Appleby CL+                           | ORI2160250CL+           | 2019                 | Oregon State AES, USDA                    |
| Brundage 96                           | ID-B-96                 | 2001                 | Idaho AES, USDA                           |
| Bruneau                               | ID 93-64901A            | 2009                 | Idaho AES, USDA                           |
| Gale                                  | OR2180377               | 2024                 | Oregon State AES, USDA                    |
| GS Bounty                             | --                      | 2022                 | Geneshifters                              |
| LCS Artdeco                           | NSA-2153A               | 2011                 | Limagrains Cereal Seeds                   |
| LCS Blackjack                         | LWW15-71945             | 2019                 | Limagrains Cereal Seeds                   |
| LCS Jefe                              | LWW17-8185              | 2022                 | Limagrains Cereal Seeds                   |
| LCS Hulk                              | LWW14-73163             | 2017                 | Limagrains Cereal Seeds                   |
| LCS Hydra AX                          | --                      | 2022                 | Limagrains Cereal Seeds                   |
| LCS Kamiak                            | LWW17-5877              | 2023                 | Limagrains Cereal Seeds                   |
| LCS Kraken AX                         | --                      | 2022                 | Limagrains Cereal Seeds                   |
| LCS Shine                             | LWW14-72916             | 2018                 | Limagrains Cereal Seeds                   |
| LCS Scorpion AX                       | --                      | 2023                 | Limagrains Cereal Seeds                   |
| Mallory CL+                           | ORI2190025 CL+          | 2024                 | Oregon State AES, USDA                    |
| Nimbus                                | OR2130755               | 2022                 | Oregon State AES, USDA                    |
| Norwest Duet                          | LOR-092                 | 2016                 | Limagrains Cereal Seeds, Oregon AES, USDA |
| Norwest Tandem                        | LOR-334                 | 2016                 | Limagrains Cereal Seeds, Oregon AES, USDA |
| Nova AX                               | WA8346 AX               | 2023                 | Washington AES, USDA                      |
| Piranha CL+                           | WA8305 CL+              | 2020                 | Washington AES, USDA                      |
| Sockeye CL+                           | WA8306 CL+              | 2020                 | Washington AES, USDA                      |
| Stephens                              | OR 65-116               | 1977                 | Oregon AES, USDA                          |
| Stingray CL+                          | WA8275CL+               | 2019                 | Washington AES, USDA                      |
| TMC M-Pire                            | --                      | 2022                 | The McGregor Company                      |
| TMC M-Press                           | --                      | --                   | The McGregor Company                      |
| UI Sparrow                            | IDO1108DH               | 2016                 | Idaho AES, USDA                           |
| UI Vixen                              | UIL15-028024A           | 2024                 | Idaho AES, USDA                           |
| VI Encore CL+                         | UIL17-7706 CL+          | 2023                 | Idaho AES / Limagrains Cereal Seeds       |
| VI Gem                                | UIL13-046145A           | 2022                 | Idaho AES / Limagrains Cereal Seeds       |
| VI Presto CL+                         | UIL17-6451 CL+          | 2020                 | Idaho AES / Limagrains Cereal Seeds       |
| VI Voodoo CL+                         | UIL17-6268 CL+          | 2020                 | Idaho AES / Limagrains Cereal Seeds       |
| WB1545                                | XE1308                  | 2023                 | WestBred/Bayer                            |
| WB1621                                | XE1304                  | 2022                 | WestBred/Bayer                            |
| WB1720                                | --                      | 2022                 | WestBred/Bayer                            |
| WB1922                                | --                      | 2022                 | WestBred/Bayer                            |
| <b><u>Winter Club Wheat</u></b>       |                         |                      |                                           |
| Calyspo                               | ARSX500-17CBW           | Not released         | USDA ARS                                  |
| Cameo                                 | ARSX492-6CBW            | 2021                 | Washington AES, USDA                      |
| Coda                                  | PI 594372               | 1998                 | Washington AES, USDA                      |
| <b><u>Hard White Winter Wheat</u></b> |                         |                      |                                           |
| UI Silver                             | IDO658B                 | 2011                 | Idaho AES, USDA                           |

**Table 2 (cont.). Varieties tested in northern Idaho extension variety trials in 2023–24.**

| <b>Variety</b>                        | <b>Experimental No.</b> | <b>Year Released</b> | <b>Developer(s) or Owner of Variety</b> |
|---------------------------------------|-------------------------|----------------------|-----------------------------------------|
| <b><u>Hard Red Winter Wheat</u></b>   |                         |                      |                                         |
| Keldin                                | AC55017                 | 2011                 | WestBred/Bayer                          |
| LCS Evina                             | --                      | 2018                 | Limagrain Cereal Seeds                  |
| LCS Missile                           | LWH19-0192              | 2023                 | Limagrain Cereal Seeds                  |
| Milestone                             | --                      | 2020                 | Nutrien                                 |
| Norwest 553                           | ORN00B553               | 2007                 | Oregon State AES, USDA                  |
| Scorpio                               | WA8268                  | 2019                 | Washington AES, USDA                    |
| WB4303                                | --                      | 2018                 | WestBred/Bayer                          |
| WB4510CLP                             | --                      | 2021                 | WestBred/Bayer                          |
| <b><u>Soft White Spring Wheat</u></b> |                         |                      |                                         |
| Bush                                  | WA8351                  | 2024                 | Washington AES, USDA                    |
| Butch CL+                             | WA8354 CL+              | 2023                 | Washington AES, USDA                    |
| Hedge CL+ (Club)                      | WA8295                  | 2020                 | Washington AES, USDA                    |
| Louise                                | WA7921                  | 2004                 | Washington AES, USDA                    |
| Melba (Club)                          | WA8193                  | 2016                 | Washington AES, USDA                    |
| Roger (Club)                          | WA8325                  | 2022                 | Washington AES, USDA                    |
| Ryan                                  | WA8214                  | 2016                 | Washington AES, USDA                    |
| Seahawk                               | WA8162                  | 2014                 | Washington AES, USDA                    |
| Tekoa                                 | WA8189                  | 2016                 | Washington AES, USDA                    |
| TMC Lochaven                          | TMC 2021                | 2022                 | The McGregor Company                    |
| UI Cookie                             | IDO1405                 | 2019                 | Idaho AES, USDA                         |
| UI Stone                              | IDO599                  | 2012                 | Idaho AES, USDA                         |
| WB6211CLP                             | XD6305                  | 2020                 | WestBred/Bayer                          |
| <b><u>Hard Red Spring Wheat</u></b>   |                         |                      |                                         |
| Alum                                  | WA 8166                 | 2014                 | Washington AES, USDA                    |
| CP3055                                | --                      | 2020                 | Croplan/Winfield United                 |
| CP3119A                               | --                      | 2021                 | Croplan/Winfield United                 |
| CP3201AX                              | --                      | 2022                 | Croplan/Winfield United                 |
| CP3322                                | --                      | 2023                 | Croplan/Winfield United                 |
| Glee                                  | WA 8074                 | 2012                 | Washington AES, USDA                    |
| Hale                                  | WA8315                  | 2022                 | Washington AES, USDA                    |
| Jefferson                             | IDO 462                 | 1998                 | Idaho AES, USDA                         |
| LCS Hammer AX                         | LARA18-90008            | 2022                 | Limagrain Cereal Seeds                  |
| Net CL+                               | WA8280                  | 2019                 | Washington AES, USDA                    |
| WB9303                                | XC9302                  | 2021                 | Westbred/Bayer                          |
| WB9623                                | --                      | --                   | Westbred/Bayer                          |
| WB9636                                | --                      | --                   | Westbred/Bayer                          |
| WB9662                                | --                      | --                   | WestBred/Bayer                          |
| WB9668                                | BZ908-552               | 2013                 | WestBred/Bayer                          |
| <b><u>Hard White Spring Wheat</u></b> |                         |                      |                                         |
| Dayn                                  | WA8123                  | 2012                 | Washington AES, USDA                    |
| UI Gold                               | IDO1804S                | 2022                 | Idaho AES, USDA                         |

**Table 2 (cont.). Varieties tested in northern Idaho extension variety trials in 2023–24.**

| <b>Variety</b>                      | <b>Use</b> | <b>Experimental No.</b> | <b>Year Released</b> | <b>Developer(s) or Owner of Variety</b> |
|-------------------------------------|------------|-------------------------|----------------------|-----------------------------------------|
| <b><u>Two-Row Spring Barley</u></b> |            |                         |                      |                                         |
| AAC Connect                         | Malt       | TR0482                  | 2016                 | Agriculture Canada/Canterra Seeds       |
| Altorado                            | Feed       | BZ509-601               | 2017                 | Highland Specialty Grains               |
| BC Elinor                           | Malt       | --                      | --                   | Limagrain Cereal Seeds                  |
| Carleton                            | Feed       | HO517-245               | 2023                 | Highland Specialty Grains               |
| CDC-Copeland                        | Malt       | TR150                   | 1999                 | University of Saskatchewan, Canada      |
| Claymore                            | Feed       | BZ509-210               | 2016                 | Highland Specialty Grains               |
| GemCraft                            | Malt       | 2Ab08-X05M010-65        | 2018                 | Idaho AES, USDA                         |
| Goldenhart*                         | Food       | 2Ab09-X06F058HL-31      | 2018                 | Idaho AES, USDA                         |
| Julie*                              | Food       | 03AH6561-94             | 2010                 | Idaho AES, USDA                         |
| Kardia                              | Food       | 2Ab09-X06F084-51        | 2015                 | Idaho AES, USDA                         |
| LCS Odyssey                         | Malt       | NSL08-4556-A            | 2013                 | Limagrain Cereal Seeds                  |
| Lenetah                             | Feed       | 01Ab11107               | 2007                 | Idaho AES, USDA                         |
| LG Capital                          | Feed       | --                      | --                   | Limagrain Cereal Seeds                  |
| LG Caravelle                        | Feed       | --                      | --                   | Limagrain Cereal Seeds                  |
| LG Caruso                           | Malt       | --                      | --                   | Limagrain Cereal Seeds                  |
| LG Diablo                           | Malt       | --                      | 2022                 | Limagrain Cereal Seeds                  |
| Salute                              | Food       | --                      | 2004                 | WestBred/Bayer                          |
| Successor                           | Feed       | DH190481                | 2023                 | Oregon State AES, USDA                  |
| Survivor                            | Feed       | 07M-203                 | 2017                 | Washington AES, USDA                    |
| Transit*                            | Food       | 03AH3054-51             | 2010                 | Idaho AES, USDA                         |
| <b><u>Two-Row Winter Barley</u></b> |            |                         |                      |                                         |
| Avalon                              | Malt       | VA16M-81                | 2020                 | Virginia Tech                           |
| Charles                             | Malt       | 94Ab1274                | 2005                 | USDA                                    |
| Endeavor                            | Malt       | 95Ab2299                | 2008                 | USDA                                    |
| Flavia                              | Malt       | --                      | --                   | Ackermann Saatzucht/Virginia Tech       |
| Marouetta                           | Malt       | --                      | --                   | Ackermann Saatzucht/Virginia Tech       |
| Thunder                             | Malt       | 10.0777                 | 2016                 | Oregon State AES, USDA                  |
| Upspring*                           | Food       | 05ARS748-270            | 2018                 | Idaho AES, USDA                         |
| Wintmalt                            | Malt       | --                      | 2014                 | KWS Lochow                              |
| <b><u>Six-Row Winter Barley</u></b> |            |                         |                      |                                         |
| Hirondella**                        | Malt       | --                      | --                   | Ackermann Saatzucht/Virginia Tech       |

\*Hulless Varieties

**Table 2 (cont.). Varieties tested in northern Idaho extension variety trials in 2023–24.**

| Variety                                    | Experimental No. | Year Released | Developer(s) or Owner of Variety    |
|--------------------------------------------|------------------|---------------|-------------------------------------|
| <b><u>Winter Pea (cotyledon color)</u></b> |                  |               |                                     |
| Blaze ( <i>yellow</i> )                    | Pro 124-7130     | 2017          | ProGene                             |
| Dint ( <i>green</i> )                      | PS1430NZ002W     | 2022          | USDA-ARS, Washington AES            |
| Goldenwood ( <i>yellow</i> )               | Pro 124-7146     | --            | ProGene                             |
| Keystone ( <i>green</i> )                  | Pro 112-7127     | 2020          | ProGene                             |
| Klondike ( <i>yellow</i> )                 | PS1430NZ010W     | 2022          | USDA-ARS, Washington AES            |
| KurtWood ( <i>green</i> )                  | Pro 182-7137     | 2023          | ProGene                             |
| MiCa ( <i>green</i> )                      | PS1430NZ003W     | 2022          | USDA-ARS, Washington AES            |
| Payback ( <i>yellow</i> )                  | Pro 174-7148     | 2023          | ProGene                             |
| Vail ( <i>green</i> )                      | Pro 122-7160     | 2022          | ProGene                             |
| Windham ( <i>yellow</i> )                  | PS98305358       | 2006          | USDA-ARS, Washington AES            |
| <b><u>Spring Pea (cotyledon color)</u></b> |                  |               |                                     |
| AAC Chrome ( <i>yellow</i> )               | P0520-116        | 2017          | Agriculture & Agri-Food Canada      |
| AAC Julius ( <i>yellow</i> )               | P0937-4006       | 2021          | Agriculture & Agri-Food Canada      |
| Aragorn ( <i>green</i> )                   | --               | 2007          | ProGene                             |
| Ariel ( <i>green</i> )                     | NZ 4L25          | 2001          | Crop and Food Research, New Zealand |
| Banner ( <i>green</i> )                    | Pro 031-7053     | 2007          | ProGene                             |
| Carousel ( <i>yellow</i> )                 | SW 995848        | 2004          | ProGene                             |
| Columbian ( <i>green</i> )                 | --               | --            | Campbell Soup Co.                   |
| Ginny 2 ( <i>green</i> )                   | Pro 121-7126     | 2014          | ProGene                             |
| Hampton ( <i>green</i> )                   | PS05100736       | 2014          | USDA-ARS, Washington AES            |
| Passion ( <i>green</i> )                   | Pro 141-6258     | 2025          | ProGene                             |
| Shamrock ( <i>green</i> )                  | --               | 2010          | Valesco Genetics                    |
| Ultra ( <i>green</i> )                     | Banner 18        | Not released  | ProGene                             |
| <b><u>Chickpea</u></b>                     |                  |               |                                     |
| Billybeans                                 | --               | 2010          | PNW Farmers Cooperative             |
| CDC Frontier                               | --               | 2003          | University of Saskatchewan          |
| CDC Leader                                 | 493-24           | 2011          | University of Saskatchewan          |
| CDC Orion                                  | --               | 2010          | University of Saskatchewan          |
| CDC Palmer                                 | 1041-3           | 2014          | University of Saskatchewan          |
| Kasin                                      | --               | --            | Agrigensol/Valesco Genetics         |
| MT Bridger                                 | NDC160236        | 2024          | Montana State University            |
| Nash                                       | CA04900843C      | 2013          | Washington AES, USDA                |
| ND Crown                                   | BGC090017        | 2020          | North Dakota State University       |
| New Hope                                   | NE21-11-22       | 2017          | University of Nebraska              |
| Sawyer                                     | CA0090B347C      | 2010          | Washington AES, USDA                |
| Sierra                                     | CA9783152C       | 2001          | Washington AES, USDA                |
| <b><u>Lentil (Class)</u></b>               |                  |               |                                     |
| Avondale (Medium Green)                    | LC 10602300R     | 2012          | Washington AES, USDA                |
| Brewer (Large Green)                       | PI 508090        | 1984          | Washington AES, USDA                |
| Merrit (Large Green)                       | LC 460266B       | 2001          | Washington AES, USDA                |
| Morena (Spanish Brown)                     | LC 02601144P     | 2011          | Washington AES, USDA                |
| Pardina (Spanish Brown)                    | --               | --            | Spain                               |

## 2023-24 Growing Conditions and Factors Affecting Trial Results

### *Fall crop conditions:*

Fall cereal trials were planted from late September to mid-October. Seeding conditions were variable with some locations having adequate seed zone moisture and other locations being dry. Despite the variable conditions, there was adequate establishment at all winter locations with the exception of the winter pea trial in Moscow. The average temperatures were near normal for much of the year, but December was notably warm followed by a significant cold snap in mid-January with temperatures reaching -20°F at Moscow, Idaho, with one week of lows near 0°F or below. Temperatures were near normal throughout the spring with above normal temperatures in July (Figure 1A). Adequate snow cover protected crops at most locations and there was little to no evidence of winter injury. The precipitation between September 2023 and June 2024 was 4.7 in below normal at Moscow (Figure 1B). Most of this deficit occurred in 2024 with well-below-normal precipitation from mid-March through July. Winter wheat and winter barley yields were higher than expected, despite the drier than average spring. The mild temperatures in May in June were likely partially responsible for this yield response.

### *Spring crop conditions:*

Due to the dry spring conditions, spring seeding occurred earlier than in recent years with spring cereals planted by April 16 and spring legumes by April 23. While the dry conditions did not negatively influence the winter crops in most cases, the dry weather in May and June substantially reduced the yield of spring cereal and legumes yields at most locations. Conditions were dry during harvest and there was no evidence of sprout in any of the wheat or barley plots.

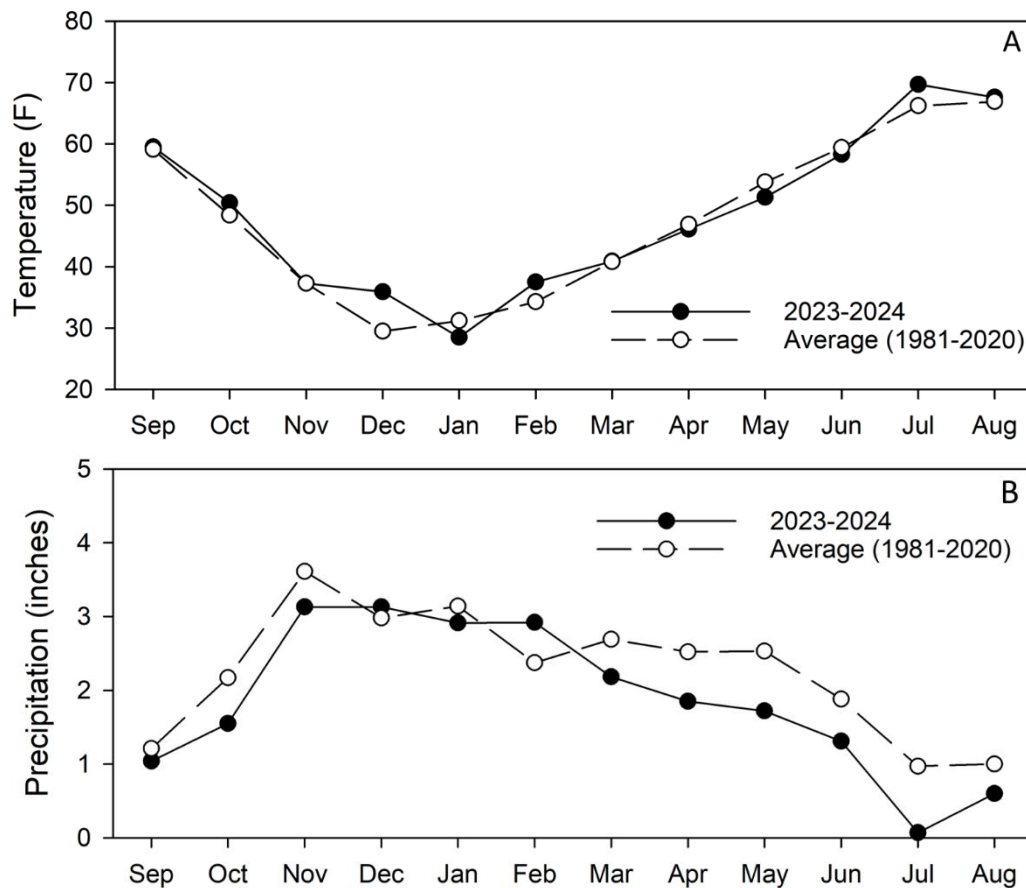


Figure 1. Mean monthly temperature (A) and precipitation (B) for the 2023–24 growing season at the Parker Plant Sciences Farm east of Moscow compared to thirty-year average.

#### *Diseases and pests:*

Stripe rust (*Puccinia striiformis* f. sp. *tritici*) on wheat is commonly observed in northern Idaho. Despite a forecast of heavy stripe rust pressure in the spring of 2024, the dry conditions prevented widespread epidemics and disease incidence was low. Even in Moscow where the winter and spring wheat trials were not sprayed with fungicide, stripe rust incidence was low. Little to no stripe rust was observed at other locations. Cephalosporium stripe (*Cephalosporium graminearum*) also is commonly observed on winter wheat in northern Idaho, but there was not substantial damage caused by this pathogen during the 2023–24 growing season. While not a disease, physiological leaf spot was observed at several winter wheat locations. Not all varieties will display symptoms of physiological leaf spot and there are mixed conclusions as to whether this disorder will result in yield reduction. In general, plant diseases and disorders did not have a substantial role in crop performance in 2024. The exception was the winter pea trial in Greencreek. This site was impacted by Ascochyta complex early in the spring. It is important to note that Ascochyta complex on winter pea is caused by several fungi and are not the same as those that cause Ascochyta blight on chickpea. The fungi impacting winter pea will not cause Ascochyta blight on chickpea if grown in close proximity or in short rotations. Despite fungicide application to manage the disease, there was significant reductions in winter pea stand and highly variable yields (548 to 2,794 lb/A) at the Greencreek location. As a result, data from this trial is not contained in this report.

Pea weevil (*Bruchus pisorum*) was present in all winter and spring pea plots. As a result, an insecticide management plan was implemented at all locations to manage this pest, resulting in minimal weevilled seeds at harvest. This pest can normally be adequately managed by application of insecticide soon after first bloom and repeating as necessary. Since winter peas bloom for a longer duration than spring pea, a second application may be required to adequately manage this pest. Due to the variability in bloom timing in variety trials, multiple applications are often required at weekly intervals.

The second insect pest was Hessian fly (*Mayetiola destructor*). The spring wheat plots at Greencreek were substantially impacted by Hessian fly, with all susceptible varieties yielding below average and making up the lowest yielding varieties in both the soft white spring and hard spring wheat trials. The severity of Hessian fly varies from year to year but is best managed by seeding resistant spring wheat varieties. While uncommon in winter wheat, there have been instances of Hessian fly in winter wheat plots in previous years. There are currently only a few winter wheat varieties with tolerance to Hessian fly.

### **Summary of 2023–24 Results**

Data was reported for all trials and locations that were seeded in the fall of 2023 and spring of 2024 with the exception of the winter peas at Greencreek. While many of the plots were impacted by weather events, diseases, or pests as outlined above, there was acceptable data produced for each of the trials in this report. As noted, in some cases not all varieties or entries are included at all locations.

A summary of selected agronomic characteristics for winter wheat, spring wheat, spring barley, and spring legumes is shown in Tables 3 and 4. Winter wheat yields in 2024 were 9 bu/A above the ten-year average. Winter wheat test weight in 2024 was the fourth highest for the past ten years at an average of 61.1 lb/bu. The yield for spring wheat was equal to the ten-year average (61 bu/A) while the spring barley yield was 2 bu/A below the ten-year average. Test weight for spring wheat were 1.4 lb/bu below the ten-year average while test weight for spring barley was 0.3 lb/bu below the ten-year average.

Spring legume yields were negatively impacted by the dry spring. The 2024 spring pea yield was 213 lb/A below the ten-year average with 1,595 lb/A. Likewise the lentil (668 lb/A) and chickpea (1,402 lb/A) yields were 256 lb/A and 471 lb/A below the 10-year average, respectively. One-hundred seed weights for the peas and lentils were both below the 10-year average while the lentil seeds weights were slightly above the 10-year average. The proportion of chickpea seed larger than 22/64" were 15% below the 10-year average with 50% in 2024.

Specific yield data for all northern Idaho trials along with multilocation summaries are listed in Tables 5–53. Varieties or breeding lines are listed in order from highest yielding to lowest yielding in each table.

**Table 3. Ten-year average of select agronomic characteristics for winter wheat, spring wheat, and spring barley, 2015–24.**

**Winter Wheat (all market classes)**

| YIELD       |            |           | TEST WEIGHT |             |           | PLANT HEIGHT |           |           | LODGING     |          |           |
|-------------|------------|-----------|-------------|-------------|-----------|--------------|-----------|-----------|-------------|----------|-----------|
| Year        | bu/A       | # of Loc. | Year        | lb/bu       | # of Loc. | Year         | inches    | # of Loc. | Year        | %        | # of Loc. |
| 2020        | 128        | 6         | 2020        | 62.0        | 6         | 2022         | 40        | 4         | 2019        | 4        | 6         |
| 2016        | 122        | 6         | 2023        | 61.7        | 6         | 2024         | 38        | 6         | 2015        | 2        | 6         |
| 2022        | 120        | 4         | 2017        | 61.2        | 5         | 2016         | 38        | 6         | 2020        | 1        | 6         |
| 2024        | 117        | 6         | 2024        | 61.1        | 6         | 2020         | 37        | 6         | 2023        | 1        | 6         |
| 2018        | 115        | 6         | 2016        | 61.1        | 6         | 2015         | 36        | 6         | 2018        | 1        | 6         |
| <b>Ave.</b> | <b>108</b> | --        | 2019        | 60.9        | 6         | 2017         | 36        | 5         | <b>Ave.</b> | <b>1</b> | --        |
| 2019        | 107        | 6         | 2018        | 60.8        | 3         | 2018         | 36        | 6         | 2016        | 0        | 6         |
| 2023        | 107        | 6         | 2022        | 60.3        | 4         | <b>Ave.</b>  | <b>36</b> | --        | 2017        | 0        | 5         |
| 2017        | 107        | 5         | <b>Ave.</b> | <b>60.3</b> | --        | 2023         | 34        | 6         | 2021        | 0        | 4         |
| 2015        | 97         | 6         | 2015        | 57.4        | 6         | 2019         | 32        | 6         | 2022        | 0        | 4         |
| 2021        | 61         | 4         | 2021        | 56.1        | 4         | 2021         | 30        | 4         | 2024        | 0        | 6         |

**Spring Wheat (all market classes)**

| YIELD       |           |           | TEST WEIGHT |             |           | PLANT HEIGHT |           |           | LODGING     |          |           |
|-------------|-----------|-----------|-------------|-------------|-----------|--------------|-----------|-----------|-------------|----------|-----------|
| Year        | bu/A      | # of Loc. | Year        | lb/bu       | # of Loc. | Year         | inches    | # of Loc. | Year        | %        | # of Loc. |
| 2020        | 101       | 1         | 2020        | 61.0        | 1         | 2020         | 38        | 1         | 2018        | 2        | 4         |
| 2016        | 72        | 4         | 2019        | 60.5        | 4         | 2022         | 34        | 2         | 2016        | 1        | 4         |
| 2022        | 70        | 2         | 2016        | 60.5        | 4         | 2018         | 31        | 4         | 2019        | 1        | 4         |
| 2024        | 61        | 2         | 2022        | 60.4        | 2         | 2019         | 30        | 4         | 2015        | 0        | 4         |
| <b>Ave.</b> | <b>61</b> | --        | <b>Ave.</b> | <b>58.7</b> | --        | 2024         | 30        | 2         | 2017        | 0        | 4         |
| 2019        | 60        | 4         | 2017        | 58.3        | 4         | 2016         | 30        | 4         | 2020        | 0        | 1         |
| 2023        | 60        | 2         | 2023        | 58.0        | 2         | <b>Ave.</b>  | <b>30</b> | --        | 2021        | 0        | 2         |
| 2018        | 55        | 4         | 2021        | 57.9        | 2         | 2023         | 29        | 2         | 2022        | 0        | 2         |
| 2017        | 47        | 4         | 2018        | 57.8        | 4         | 2015         | 29        | 4         | 2023        | 0        | 2         |
| 2015        | 46        | 4         | 2024        | 57.3        | 2         | 2017         | 27        | 4         | 2024        | 0        | 2         |
| 2021        | 39        | 2         | 2015        | 55.7        | 4         | 2021         | 24        | 2         | <b>Ave.</b> | <b>0</b> | --        |

**Spring Barley (all market classes)**

| YIELD       |           |           | TEST WEIGHT |             |           | PLANT HEIGHT |           |           | LODGING     |          |           |
|-------------|-----------|-----------|-------------|-------------|-----------|--------------|-----------|-----------|-------------|----------|-----------|
| Year        | bu/A      | # of Loc. | Year        | lb/bu       | # of Loc. | Year         | inches    | # of Loc. | Year        | %        | # of Loc. |
| 2020        | 123       | 2         | 2020        | 55.7        | 2         | 2020         | 38        | 2         | 2016        | 14       | 4         |
| 2016        | 113       | 4         | 2016        | 53.2        | 4         | 2024         | 34        | 3         | 2020        | 9        | 2         |
| 2019        | 92        | 4         | 2018        | 52.5        | 4         | 2018         | 34        | 4         | 2024        | 5        | 3         |
| 2022        | 91        | 3         | 2019        | 52.4        | 4         | 2016         | 32        | 4         | 2023        | 4        | 3         |
| <b>Ave.</b> | <b>86</b> | --        | 2022        | 52.0        | 3         | 2019         | 31        | 4         | <b>Ave.</b> | <b>4</b> | --        |
| 2023        | 85        | 3         | <b>Ave.</b> | <b>51.2</b> | --        | 2022         | 31        | 3         | 2019        | 3        | 4         |
| 2024        | 84        | 3         | 2024        | 50.9        | 3         | <b>Ave.</b>  | <b>31</b> | --        | 2015        | 3        | 4         |
| 2018        | 81        | 4         | 2017        | 50.7        | 4         | 2015         | 29        | 4         | 2022        | 2        | 3         |
| 2015        | 76        | 4         | 2023        | 49.1        | 3         | 2017         | 29        | 4         | 2018        | 2        | 4         |
| 2017        | 73        | 4         | 2015        | 48.9        | 4         | 2023         | 28        | 3         | 2021        | 0        | 3         |
| 2021        | 46        | 3         | 2021        | 47.0        | 3         | 2021         | 25        | 3         | 2017        | 0        | 4         |

**Table 4. Ten-year average of select agronomic characteristics for pea, lentil, and chickpea, 2015–24.**

**Pea (all market classes)**

| YIELD       |              |           | 100 SEED WEIGHT |             |           | VINE LENGTH |           |           | PLANT HEIGHT INDEX |             |           |
|-------------|--------------|-----------|-----------------|-------------|-----------|-------------|-----------|-----------|--------------------|-------------|-----------|
| Year        | lb/A         | # of Loc. | Year            | grams       | # of Loc. | Year        | inches    | # of Loc. | Year               | (0-1)       | # of Loc. |
| 2019        | 2,996        | 3         | 2016            | 21.7        | 3         | 2018        | 33        | 3         | 2017               | 0.89        | 3         |
| 2022        | 2,986        | 2         | 2019            | 21.2        | 3         | 2019        | 31        | 3         | 2021               | 0.84        | 2         |
| 2016        | 2,327        | 3         | 2022            | 20.2        | 2         | 2022        | 31        | 2         | 2018               | 0.82        | 3         |
| 2018        | 2,115        | 3         | <b>Ave.</b>     | <b>19.4</b> | --        | 2023        | 27        | 2         | 2023               | 0.81        | 2         |
| <b>Ave.</b> | <b>1,808</b> | --        | 2023            | 19.2        | 2         | 2016        | 27        | 3         | <b>Ave.</b>        | <b>0.80</b> | --        |
| 2023        | 1,782        | 2         | 2017            | 19.0        | 3         | 2024        | 26        | 2         | 2024               | 0.79        | 2         |
| 2024        | 1,595        | 2         | 2018            | 18.8        | 3         | <b>Ave.</b> | <b>26</b> | --        | 2015               | 0.79        | 3         |
| 2015        | 1,156        | 3         | 2015            | 18.3        | 3         | 2015        | 22        | 3         | 2019               | 0.77        | 3         |
| 2017        | 749          | 3         | 2021            | 18.2        | 2         | 2021        | 18        | 2         | 2016               | 0.73        | 3         |
| 2021        | 568          | 2         | 2024            | 17.7        | 2         | 2017        | 18        | 3         | 2022               | 0.72        | 2         |
| 2020        | --           | 0         | 2020            | --          | 0         | 2020        | --        | 0         | 2020               | --          | 0         |

**Lentil (all market classes)**

| YIELD       |            |           | 100 SEED WEIGHT |            |           | PLANT HEIGHT |           |           | PLANT HEIGHT INDEX |             |           |
|-------------|------------|-----------|-----------------|------------|-----------|--------------|-----------|-----------|--------------------|-------------|-----------|
| Year        | lb/A       | # of Loc. | Year            | grams      | # of Loc. | Year         | inches    | # of Loc. | Year               | (0-1)       | # of Loc. |
| 2019        | 1,311      | 3         | 2021            | 4.9        | 2         | 2022         | 16        | 1         | 2017               | 0.97        | 3         |
| 2022        | 1,210      | 1         | 2024            | 4.9        | 2         | 2019         | 15        | 3         | 2015               | 0.83        | 1         |
| 2016        | 1,110      | 3         | 2017            | 4.6        | 3         | 2023         | 15        | 2         | 2018               | 0.83        | 3         |
| 2018        | 1,076      | 3         | 2022            | 4.5        | 1         | 2016         | 15        | 3         | 2021               | 0.82        | 2         |
| 2023        | 984        | 2         | 2023            | 4.5        | 2         | 2018         | 15        | 3         | 2023               | 0.82        | 2         |
| <b>Ave.</b> | <b>924</b> | --        | <b>Ave.</b>     | <b>4.5</b> | --        | <b>Ave.</b>  | <b>14</b> | --        | <b>Ave.</b>        | <b>0.81</b> | --        |
| 2017        | 806        | 3         | 2019            | 4.4        | 3         | 2024         | 13        | 2         | 2024               | 0.77        | 2         |
| 2015        | 760        | 1         | 2018            | 4.4        | 3         | 2015         | 13        | 1         | 2022               | 0.76        | 1         |
| 2024        | 668        | 2         | 2015            | 4.3        | 1         | 2017         | 13        | 3         | 2019               | 0.70        | 3         |
| 2021        | 387        | 2         | 2016            | 3.9        | 3         | 2021         | 12        | 2         | 2020               | --          | 0         |
| 2020        | --         | 0         | 2020            | --         | 0         | 2020         | --        | 0         | 2016               | --          | 0         |

**Chickpea (all market classes)**

| YIELD       |              |           | 100 SEED WEIGHT |             |           | PLANT HEIGHT |           |           | A BEAN (>22/64") |           |           |
|-------------|--------------|-----------|-----------------|-------------|-----------|--------------|-----------|-----------|------------------|-----------|-----------|
| Year        | lb/A         | # of Loc. | Year            | grams       | # of Loc. | Year         | inches    | # of Loc. | Year             | %         | # of Loc. |
| 2019        | 3,396        | 2         | 2015            | 47.6        | 3         | 2019         | 23        | 2         | 2019             | 77        | 2         |
| 2016        | 2,609        | 3         | 2019            | 47.3        | 2         | 2016         | 22        | 3         | 2022             | 74        | 1         |
| 2022        | 2,516        | 1         | 2017            | 46.3        | 3         | 2023         | 20        | 2         | 2015             | 73        | 3         |
| 2018        | 1,898        | 3         | 2022            | 44.5        | 1         | 2022         | 19        | 1         | 2017             | 69        | 3         |
| <b>Ave.</b> | <b>1,873</b> | --        | <b>Ave.</b>     | <b>43.5</b> | --        | <b>Ave.</b>  | <b>19</b> | --        | 2023             | 66        | 2         |
| 2017        | 1,806        | 3         | 2023            | 42.3        | 2         | 2024         | 18        | 2         | 2021             | 65        | 1         |
| 2023        | 1,405        | 2         | 2016            | 42.1        | 3         | 2018         | 18        | 3         | <b>Ave.</b>      | <b>65</b> | --        |
| 2024        | 1,402        | 2         | 2018            | 41.7        | 3         | 2015         | 17        | 3         | 2016             | 57        | 3         |
| 2015        | 1,119        | 2         | 2021            | 41.4        | 1         | 2017         | 17        | 3         | 2018             | 51        | 3         |
| 2021        | 710          | 1         | 2024            | 38.6        | 2         | 2021         | 14        | 1         | 2024             | 50        | 2         |
| 2020        | --           | 0         | 2020            | --          | 0         | 2020         | --        | 0         | 2020             | --        | 0         |

**Table 5. Soft white winter wheat variety performance results at Bonners Ferry, 2024.**

| Variety or Selection | 3-Year<br>Average<br>(bu/A)** | 2-Year<br>Average<br>(bu/A) | 2023–24 Crop Year          |                           |                         |                |                        |
|----------------------|-------------------------------|-----------------------------|----------------------------|---------------------------|-------------------------|----------------|------------------------|
|                      |                               |                             | Seed<br>Yield<br>(bu/A)*** | Test<br>Weight<br>(lb/bu) | Plant<br>Height<br>(in) | Lodging<br>(%) | Seed<br>Protein<br>(%) |
| LCS Hulk             | 120                           | 121                         | <b>138</b>                 | 63.3                      | 35                      | 0              | 10.0                   |
| LCS Blackjack        |                               | 119                         | <b>136</b>                 | 60.1                      | 35                      | 0              | 10.1                   |
| VI Gem               |                               | 124                         | <b>136</b>                 | 62.9                      | 37                      | 0              | 9.4                    |
| LCS Jefe             |                               | 112                         | <b>133</b>                 | 62.2                      | 35                      | 0              | 9.2                    |
| WA8397               |                               | 112                         | <b>133</b>                 | 62.5                      | 35                      | 0              | 9.6                    |
| WB1720               |                               | 102                         | <b>132</b>                 | 63.0                      | 33                      | 0              | 10.0                   |
| WB1922               |                               | 109                         | <b>132</b>                 | 63.7                      | 37                      | 0              | 10.6                   |
| Norwest Tandem       | 103                           | 108                         | <b>132</b>                 | 61.7                      | 33                      | 0              | 9.7                    |
| UI Sparrow           | 105                           | 108                         | <b>129</b>                 | 60.0                      | 39                      | 0              | 9.6                    |
| WA8405               |                               | 107                         | <b>127</b>                 | 62.0                      | 35                      | 0              | 9.8                    |
| WA8404               |                               | 106                         | <b>125</b>                 | 61.7                      | 35                      | 0              | 9.7                    |
| GS Bounty            |                               |                             | <b>125</b>                 | 62.7                      | 38                      | 0              | 10.0                   |
| Norwest Duet         | 104                           | 107                         | <b>125</b>                 | 63.0                      | 40                      | 0              | 10.5                   |
| ARSRS14X1114-1-3CBW* |                               |                             | <b>124</b>                 | 61.3                      | 35                      | 0              | 9.3                    |
| UI Vixen             | 114                           | 116                         | <b>124</b>                 | 62.7                      | 38                      | 0              | 9.6                    |
| TMC M-Pire           |                               | 109                         | <b>123</b>                 | 62.6                      | 34                      | 0              | 10.2                   |
| WA8398               |                               | 103                         | <b>123</b>                 | 62.1                      | 35                      | 0              | 10.2                   |
| LCS Kamiak           |                               | 109                         | 122                        | 61.8                      | 33                      | 0              | 10.4                   |
| UIL16-478001A        |                               | 113                         | 122                        | 62.8                      | 36                      | 0              | 9.4                    |
| Calyspo*             |                               | 102                         | 120                        | 63.3                      | 36                      | 0              | 10.1                   |
| Cameo*               |                               | 96                          | 118                        | 61.0                      | 36                      | 0              | 9.8                    |
| OR5180071*           |                               | 103                         | 118                        | 61.9                      | 34                      | 0              | 9.8                    |
| Coda*                | 102                           | 102                         | 116                        | 63.7                      | 39                      | 0              | 10.4                   |
| UIL17-550099A        |                               |                             | 116                        | 62.0                      | 37                      | 0              | 11.0                   |
| OR5180072*           |                               | 104                         | 116                        | 60.8                      | 37                      | 0              | 9.7                    |
| Nimbus               | 103                           | 103                         | 115                        | 62.1                      | 39                      | 0              | 9.7                    |
| TMC M-Press          |                               |                             | 115                        | 62.3                      | 35                      | 0              | 9.7                    |
| UIL14-211120A        |                               | 106                         | 115                        | 61.0                      | 37                      | 0              | 9.9                    |
| Bruneau              | 112                           | 111                         | 114                        | 61.9                      | 38                      | 0              | 9.9                    |
| UIL17-995133B        |                               | 107                         | 114                        | 63.3                      | 37                      | 0              | 10.1                   |
| Brundage 96          |                               | 104                         | 113                        | 61.9                      | 35                      | 0              | 10.0                   |
| UIL16-007057A        |                               |                             | 113                        | 62.2                      | 37                      | 0              | 10.5                   |
| IDO1708W             |                               | 101                         | 112                        | 60.7                      | 35                      | 0              | 10.4                   |
| Gale                 |                               |                             | 111                        | 59.2                      | 33                      | 0              | 9.5                    |
| Stephens             | 100                           | 101                         | 109                        | 61.7                      | 36                      | 0              | 9.8                    |
| WB1545               |                               |                             | 109                        | 63.2                      | 34                      | 0              | 10.3                   |
| AP Iliad             |                               |                             | 101                        | 62.1                      | 34                      | 0              | 10.2                   |
| LCS Shine            |                               |                             | --                         | 61.7                      | 32                      | 0              | 11.0                   |
| WB1621               |                               |                             | --                         | 63.7                      | 36                      | 0              | 10.0                   |
| Average              | <b>107</b>                    | <b>108</b>                  | <b>121</b>                 | <b>62.1</b>               | <b>36</b>               | <b>0</b>       | <b>10.0</b>            |
| LSD (0.05)           | <b>12</b>                     | <b>8</b>                    | <b>16</b>                  | <b>0.7</b>                | <b>2</b>                | --             | --                     |
| CV (%)               | <b>8.1</b>                    | <b>7.4</b>                  | <b>9.0</b>                 | <b>0.7</b>                | <b>4.2</b>              | --             | --                     |

\*Club wheat

\*\*3-year averages were calculated using data from the current year along with 2020 and 2023. The Bonners Ferry location was not seeded in 2021 or 2022.

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

Note that no yield could be reported for LCS Shine or WB1621 due to severe deer injury to these varieties. Awnless varieties were not uniformly impacted by deer.

**Table 6. Soft white winter wheat variety performance results at Genesee, 2024.**

| Variety or Selection | 3-Year<br>Average<br>(bu/A) | 2-Year<br>Average<br>(bu/A) | 2023–24 Crop Year         |                           |                         |                |                 | Seed<br>Protein<br>(%) |
|----------------------|-----------------------------|-----------------------------|---------------------------|---------------------------|-------------------------|----------------|-----------------|------------------------|
|                      |                             |                             | Seed<br>Yield<br>(bu/A)** | Test<br>Weight<br>(lb/bu) | Plant<br>Height<br>(in) | Lodging<br>(%) | Heading<br>Date |                        |
| AP Exceed            | 128                         | 132                         | <b>149</b>                | 64.5                      | 41                      | 0              | 5/29            | 10.4                   |
| ARSRS14X1114-1-3CBW* |                             |                             | <b>148</b>                | 63.2                      | 39                      | 0              | 6/6             | 10.4                   |
| LCS Jefe             | 126                         | 131                         | <b>142</b>                | 63.3                      | 40                      | 0              | 6/3             | 10.4                   |
| WA8398               |                             | 130                         | <b>142</b>                | 62.4                      | 41                      | 0              | 6/6             | 11.2                   |
| WA8397               |                             | 129                         | <b>141</b>                | 62.3                      | 41                      | 0              | 6/6             | 11.2                   |
| WA8404               |                             | 128                         | <b>140</b>                | 62.0                      | 41                      | 0              | 6/6             | 11.1                   |
| VI Gem               |                             | 130                         | <b>140</b>                | 63.0                      | 40                      | 0              | 6/3             | 10.5                   |
| WB1720               | 120                         | 124                         | 138                       | 63.4                      | 37                      | 0              | 6/5             | 11.4                   |
| GS Bounty            |                             |                             | 138                       | 62.6                      | 43                      | 0              | 6/7             | 11.3                   |
| WA8405               |                             | 125                         | 137                       | 61.9                      | 41                      | 0              | 6/7             | 10.6                   |
| UIL16-478001A        | 126                         | 129                         | 137                       | 63.5                      | 41                      | 0              | 6/5             | 10.8                   |
| Gale                 |                             |                             | 137                       | 59.9                      | 37                      | 0              | 6/7             | 10.8                   |
| UIL16-007057A        |                             |                             | 137                       | 62.2                      | 42                      | 0              | 6/3             | 11.8                   |
| TMC M-Pire           |                             | 127                         | 137                       | 64.4                      | 37                      | 0              | 6/2             | 10.8                   |
| UI Vixen             | 127                         | 129                         | 135                       | 63.6                      | 41                      | 0              | 6/7             | 10.8                   |
| Calyspo*             | 120                         | 124                         | 133                       | 64.0                      | 41                      | 0              | 6/5             | 11.3                   |
| AP Iliad             | 123                         | 127                         | 132                       | 62.8                      | 40                      | 0              | 6/2             | 11.6                   |
| AP Olympia           |                             |                             | 132                       | 64.0                      | 40                      | 0              | 6/3             | 10.9                   |
| TMC M-Press          |                             |                             | 131                       | 63.3                      | 41                      | 0              | 6/4             | 10.8                   |
| Cameo*               | 120                         | 121                         | 130                       | 62.2                      | 40                      | 0              | 6/7             | 10.4                   |
| LCS Kamiak           | 122                         | 127                         | 130                       | 63.9                      | 40                      | 0              | 5/28            | 11.1                   |
| WB1922               | 121                         | 124                         | 130                       | 64.1                      | 42                      | 0              | 6/8             | 11.2                   |
| UI Sparrow           | 123                         | 124                         | 129                       | 60.7                      | 41                      | 0              | 6/8             | 10.6                   |
| Bruneau              | 125                         | 125                         | 129                       | 62.7                      | 42                      | 0              | 6/6             | 10.9                   |
| UIL14-211120A        |                             | 125                         | 129                       | 62.1                      | 41                      | 0              | 6/3             | 10.9                   |
| OR5180071*           |                             | 119                         | 129                       | 62.5                      | 37                      | 0              | 6/7             | 10.0                   |
| Norwest Duet         | 118                         | 122                         | 129                       | 62.7                      | 47                      | 0              | 6/7             | 11.1                   |
| OR5180072*           |                             | 122                         | 128                       | 61.5                      | 40                      | 0              | 6/5             | 11.4                   |
| LCS Blackjack        | 123                         | 124                         | 128                       | 61.4                      | 39                      | 0              | 6/5             | 10.2                   |
| Nimbus               | 116                         | 120                         | 127                       | 62.5                      | 45                      | 0              | 6/3             | 10.9                   |
| UIL17-995133B        |                             | 120                         | 125                       | 64.3                      | 38                      | 0              | 6/2             | 11.6                   |
| Norwest Tandem       | 115                         | 117                         | 125                       | 63.1                      | 36                      | 0              | 6/3             | 11.2                   |
| UIL17-550099A        |                             |                             | 124                       | 62.1                      | 39                      | 0              | 6/7             | 11.4                   |
| Coda*                | 111                         | 113                         | 124                       | 64.2                      | 44                      | 0              | 6/9             | 10.7                   |
| LCS Hulk             | 121                         | 121                         | 123                       | 63.6                      | 41                      | 0              | 6/4             | 10.9                   |
| Stephens             | 111                         | 115                         | 123                       | 62.8                      | 38                      | 0              | 6/2             | 11.4                   |
| Brundage 96          | 114                         | 116                         | 123                       | 62.3                      | 38                      | 0              | 6/5             | 11.3                   |
| WB1621               | 117                         | 118                         | 123                       | 65.2                      | 40                      | 0              | 6/3             | 11.3                   |
| WB1545               |                             |                             | 122                       | 65.0                      | 39                      | 0              | 5/28            | 11.4                   |
| LCS Shine            | 124                         | 120                         | 122                       | 63.7                      | 36                      | 0              | 6/2             | 11.2                   |
| IDO1708W             |                             | 111                         | 116                       | 62.2                      | 40                      | 0              | 5/31            | 10.3                   |
| Average              | <b>120</b>                  | <b>123</b>                  | <b>132</b>                | <b>62.9</b>               | <b>40</b>               | <b>0</b>       | <b>6/4</b>      | <b>11.0</b>            |
| LSD (0.05)           | <b>7</b>                    | <b>8</b>                    | <b>11</b>                 | <b>0.5</b>                | <b>1</b>                | --             | <b>1.3</b>      | --                     |
| CV (%)               | <b>7.5</b>                  | <b>6.7</b>                  | <b>6.0</b>                | <b>0.6</b>                | <b>2.6</b>              | --             | <b>11.7</b>     | --                     |

\*Club wheat

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

Table 7. Soft white winter wheat variety performance results at Lewiston, 2024.

| Variety or Selection | 3-Year<br>Average<br>(bu/A) | 2-Year<br>Average<br>(bu/A) | 2023–24 Crop Year         |                           |                         |                |                 | Seed<br>Protein<br>(%) |
|----------------------|-----------------------------|-----------------------------|---------------------------|---------------------------|-------------------------|----------------|-----------------|------------------------|
|                      |                             |                             | Seed<br>Yield<br>(bu/A)** | Test<br>Weight<br>(lb/bu) | Plant<br>Height<br>(in) | Lodging<br>(%) | Heading<br>Date |                        |
| UIL17-995133B        |                             | 136                         | <b>145</b>                | 63.6                      | 39                      | 0              | 5/26            | 11.1                   |
| UIL14-211120A        |                             | 129                         | <b>143</b>                | 60.4                      | 43                      | 0              | 5/27            | 12.5                   |
| LCS Kamiak           | 138                         | 137                         | <b>143</b>                | 63.8                      | 38                      | 0              | 5/20            | 11.9                   |
| ARSRS14X1114-1-3CBW* |                             |                             | <b>143</b>                | 63.1                      | 39                      | 0              | 5/28            | 10.8                   |
| AP Olympia           |                             |                             | <b>142</b>                | 62.7                      | 41                      | 0              | 5/27            | 12.4                   |
| AP Iliad             | 133                         | 130                         | <b>142</b>                | 62.1                      | 41                      | 0              | 5/26            | 11.8                   |
| LCS Blackjack        | 136                         | 134                         | <b>141</b>                | 61.0                      | 38                      | 0              | 5/27            | 11.6                   |
| Norwest Tandem       | 125                         | 126                         | <b>140</b>                | 61.9                      | 35                      | 0              | 5/26            | 11.6                   |
| TMC M-Press          |                             |                             | <b>140</b>                | 62.5                      | 39                      | 0              | 5/28            | 12.3                   |
| LCS Jefe             | 133                         | 128                         | <b>139</b>                | 61.5                      | 38                      | 0              | 5/28            | 11.6                   |
| LCS Hulk             | 133                         | 130                         | <b>139</b>                | 62.9                      | 42                      | 0              | 5/29            | 11.8                   |
| WA8404               |                             | 129                         | <b>139</b>                | 61.4                      | 42                      | 0              | 5/29            | 11.9                   |
| TMC M-Pire           |                             | 132                         | <b>138</b>                | 62.9                      | 36                      | 0              | 5/26            | 11.2                   |
| WA8398               |                             | 122                         | <b>138</b>                | 61.2                      | 42                      | 0              | 5/28            | 12.0                   |
| WB1621               | 136                         | 131                         | <b>136</b>                | 65.2                      | 40                      | 0              | 5/27            | 11.9                   |
| LCS Artdeco          |                             | 124                         | <b>134</b>                | 61.7                      | 35                      | 0              | 5/25            | 11.2                   |
| Nimbus               | 131                         | 127                         | <b>133</b>                | 62.5                      | 43                      | 0              | 5/24            | 11.5                   |
| AP Exceed            |                             | 121                         | <b>133</b>                | 63.0                      | 39                      | 0              | 5/20            | 11.7                   |
| Norwest Duet         | 128                         | 123                         | <b>132</b>                | 62.0                      | 46                      | 0              | 5/31            | 12.2                   |
| WB1545               |                             |                             | <b>130</b>                | 64.2                      | 40                      | 0              | 5/21            | 11.8                   |
| WA8397               |                             | 121                         | <b>130</b>                | 60.0                      | 40                      | 0              | 5/29            | 12.4                   |
| Gale                 |                             |                             | <b>130</b>                | 60.0                      | 37                      | 0              | 5/27            | 11.7                   |
| VI Gem               |                             | 121                         | <b>130</b>                | 62.4                      | 39                      | 0              | 5/26            | 11.5                   |
| LCS Shine            | 130                         | 122                         | 129                       | 61.4                      | 33                      | 0              | 5/23            | 11.4                   |
| UI Vixen             | 127                         | 119                         | 128                       | 63.7                      | 41                      | 3              | 5/30            | 11.7                   |
| UIL16-007057A        | 121                         |                             | 128                       | 60.4                      | 42                      | 0              | 5/28            | 13.0                   |
| GS Bounty            |                             |                             | 128                       | 61.5                      | 44                      | 0              | 5/29            | 11.8                   |
| WB1720               | 125                         | 120                         | 127                       | 63.0                      | 37                      | 0              | 5/27            | 12.3                   |
| Cameo*               | 120                         | 108                         | 127                       | 61.1                      | 39                      | 0              | 5/30            | 11.9                   |
| UI Sparrow           | 121                         | 112                         | 126                       | 60.8                      | 43                      | 0              | 5/31            | 11.5                   |
| IDO1708W             |                             | 116                         | 126                       | 59.8                      | 39                      | 0              | 5/26            | 12.3                   |
| UIL17-550099A        |                             |                             | 126                       | 60.9                      | 40                      | 0              | 5/30            | 12.5                   |
| WB1922               | 123                         | 117                         | 126                       | 63.3                      | 43                      | 0              | 5/31            | 12.0                   |
| WA8405               |                             | 121                         | 125                       | 59.1                      | 41                      | 0              | 5/29            | 11.9                   |
| OR5180072*           |                             | 117                         | 125                       | 61.1                      | 41                      | 0              | 5/28            | 11.8                   |
| UIL16-478001A        |                             | 112                         | 121                       | 61.6                      | 43                      | 0              | 5/28            | 11.6                   |
| Brundage 96          | 121                         | 115                         | 121                       | 61.9                      | 40                      | 0              | 5/28            | 12.5                   |
| OR5180071*           |                             | 113                         | 120                       | 62.2                      | 38                      | 0              | 5/30            | 12.0                   |
| Bruneau              | 125                         | 111                         | 118                       | 62.2                      | 42                      | 1              | 5/29            | 11.9                   |
| Coda*                | 116                         | 109                         | 117                       | 63.2                      | 42                      | 10             | 5/31            | 12.2                   |
| Stephens             | 118                         | 111                         | 114                       | 60.6                      | 38                      | 0              | 5/26            | 12.1                   |
| Calyspo*             | 111                         | 103                         | 113                       | 62.7                      | 39                      | 0              | 5/27            | 11.8                   |
| Average              | <b>126</b>                  | <b>121</b>                  | <b>131</b>                | <b>62.0</b>               | <b>40</b>               | <b>&lt;1</b>   | <b>5/27</b>     | <b>11.9</b>            |
| LSD (0.05)           | <b>6</b>                    | <b>9</b>                    | <b>16</b>                 | <b>1.2</b>                | <b>2</b>                | <b>ns</b>      | <b>1.4</b>      | <b>--</b>              |
| CV (%)               | <b>6.2</b>                  | <b>7.4</b>                  | <b>8.2</b>                | <b>1.4</b>                | <b>3.1</b>              | <b>978.1</b>   | <b>10.6</b>     | <b>--</b>              |

\*Club wheat

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

**Table 8. Soft white winter wheat variety performance results at Moscow, 2024.**

| Variety or Selection | 3-Year<br>Average<br>(bu/A)** | 2-Year<br>Average<br>(bu/A) | 2023–24 Crop Year          |                           |                         |                |                 | Seed<br>Protein<br>(%) |
|----------------------|-------------------------------|-----------------------------|----------------------------|---------------------------|-------------------------|----------------|-----------------|------------------------|
|                      |                               |                             | Seed<br>Yield<br>(bu/A)*** | Test<br>Weight<br>(lb/bu) | Plant<br>Height<br>(in) | Lodging<br>(%) | Heading<br>Date |                        |
| LCS Jefe             |                               | 125                         | <b>133</b>                 | 59.4                      | 39                      | 0              | 6/7             | 9.5                    |
| LCS Shine            | 137                           | 124                         | <b>130</b>                 | 58.9                      | 37                      | 0              | 6/4             | 10.2                   |
| Gale                 |                               |                             | <b>128</b>                 | 57.0                      | 37                      | 0              | 6/8             | 10.6                   |
| LCS Blackjack        | 133                           | 119                         | <b>122</b>                 | 57.3                      | 37                      | 0              | 6/9             | 9.9                    |
| VI Gem               |                               | 119                         | <b>121</b>                 | 59.3                      | 38                      | 0              | 6/5             | 10.0                   |
| WA8397               |                               | 116                         | <b>121</b>                 | 58.8                      | 38                      | 0              | 6/9             | 10.3                   |
| UI Sparrow           | 127                           | 116                         | <b>121</b>                 | 58.0                      | 41                      | 0              | 6/10            | 10.5                   |
| AP Exceed            |                               | 117                         | 120                        | 60.6                      | 39                      | 0              | 5/31            | 9.9                    |
| WA8398               |                               | 113                         | 119                        | 59.2                      | 39                      | 0              | 6/8             | 10.3                   |
| UIL14-211120A        |                               | 116                         | 119                        | 59.0                      | 39                      | 0              | 6/3             | 10.1                   |
| Norwest Tandem       | 122                           | 113                         | 117                        | 59.3                      | 36                      | 0              | 6/5             | 10.5                   |
| WA8405               |                               | 113                         | 117                        | 58.7                      | 38                      | 0              | 6/9             | 10.6                   |
| ARSRS14X1114-1-3CBW* |                               |                             | 115                        | 59.2                      | 36                      | 0              | 6/8             | 9.3                    |
| WA8404               |                               | 113                         | 114                        | 59.4                      | 38                      | 0              | 6/9             | 10.6                   |
| WB1922               |                               | 104                         | 110                        | 61.6                      | 40                      | 0              | 6/10            | 10.7                   |
| UI Vixen             | 120                           | 110                         | 109                        | 60.4                      | 40                      | 0              | 6/9             | 10.3                   |
| Cameo*               | 124                           | 108                         | 109                        | 58.6                      | 38                      | 0              | 6/9             | 10.2                   |
| LCS Hulk             | 119                           | 104                         | 109                        | 59.8                      | 37                      | 0              | 6/8             | 10.8                   |
| Stephens             | 114                           | 101                         | 109                        | 58.6                      | 37                      | 0              | 6/4             | 11.7                   |
| Bruneau              | 124                           | 111                         | 108                        | 59.4                      | 39                      | 0              | 6/9             | 11.0                   |
| UIL16-007057A        |                               |                             | 108                        | 59.0                      | 38                      | 0              | 6/5             | 10.5                   |
| TMC M-Pire           |                               | 109                         | 108                        | 61.1                      | 36                      | 0              | 6/3             | 9.7                    |
| UIL16-478001A        |                               | 107                         | 108                        | 59.8                      | 37                      | 0              | 6/8             | 9.8                    |
| WB1720               |                               | 106                         | 107                        | 59.9                      | 36                      | 0              | 6/7             | 9.8                    |
| WB1621               |                               | 111                         | 107                        | 60.9                      | 36                      | 0              | 6/6             | 9.9                    |
| TMC M-Press          |                               |                             | 106                        | 59.8                      | 36                      | 0              | 6/6             | 9.8                    |
| Norwest Duet         | 127                           | 113                         | 106                        | 59.5                      | 43                      | 0              | 6/10            | 10.1                   |
| WB1545               |                               |                             | 105                        | 62.7                      | 37                      | 0              | 5/31            | 10.7                   |
| OR5180071*           |                               | 102                         | 104                        | 59.9                      | 34                      | 0              | 6/9             | 10.0                   |
| UIL17-550099A        |                               |                             | 104                        | 58.1                      | 38                      | 0              | 6/9             | 11.0                   |
| Nimbus               | 122                           | 106                         | 103                        | 59.2                      | 39                      | 0              | 6/5             | 10.4                   |
| Brundage 96          | 117                           | 106                         | 103                        | 59.4                      | 36                      | 0              | 6/8             | 10.7                   |
| IDO1708W             |                               | 100                         | 102                        | 58.5                      | 37                      | 0              | 6/3             | 10.9                   |
| GS Bounty            |                               |                             | 100                        | 59.2                      | 39                      | 0              | 6/9             | 10.9                   |
| UIL17-995133B        |                               | 108                         | 100                        | 60.8                      | 34                      | 0              | 6/4             | 10.3                   |
| Coda*                | 111                           | 99                          | 99                         | 60.7                      | 39                      | 0              | 6/12            | 11.0                   |
| Calyspo*             |                               | 98                          | 98                         | 61.1                      | 39                      | 0              | 6/9             | 10.5                   |
| AP Iliad             |                               | 107                         | 96                         | 59.3                      | 37                      | 0              | 6/4             | 9.9                    |
| OR5180072*           |                               | 99                          | 95                         | 57.9                      | 35                      | 0              | 6/7             | 9.4                    |
| AP Olympia           |                               |                             | 94                         | 59.9                      | 35                      | 0              | 6/6             | 10.3                   |
| LCS Kamiak           |                               | 108                         | 88                         | 59.6                      | 33                      | 0              | 6/2             | 10.6                   |
| Average              | 123                           | 110                         | 110                        | 59.5                      | 37                      | 0              | 6/7             | 10.3                   |
| LSD (0.05)           | 6                             | 9                           | 13                         | 0.7                       | 2                       | --             | 1.3             | --                     |
| CV (%)               | 6.4                           | 8.3                         | 8.3                        | 0.8                       | 3.9                     | --             | 10.7            | --                     |

\*Club wheat

\*\*3-year averages were calculated using data from the current year along with 2020 and 2023. The Moscow location was not seeded in 2021 or 2022.

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

**Table 9. Soft white winter wheat variety performance results at Nezperce, 2024.**

| Variety or Selection | 3-Year<br>Average<br>(bu/A) | 2-Year<br>Average<br>(bu/A) | 2023–24 Crop Year         |                           |                         |                |                 | Seed<br>Protein<br>(%) |
|----------------------|-----------------------------|-----------------------------|---------------------------|---------------------------|-------------------------|----------------|-----------------|------------------------|
|                      |                             |                             | Seed<br>Yield<br>(bu/A)** | Test<br>Weight<br>(lb/bu) | Plant<br>Height<br>(in) | Lodging<br>(%) | Heading<br>Date |                        |
| AP Exceed            | 120                         | 113                         | <b>120</b>                | 60.3                      | 38                      | 0              | 6/9             | 10.3                   |
| AP Olympia           |                             |                             | <b>117</b>                | 60.2                      | 38                      | 0              | 6/13            | 10.4                   |
| WB1621               | 111                         | 110                         | <b>116</b>                | 61.8                      | 38                      | 0              | 6/13            | 10.4                   |
| LCS Jefe             | 112                         | 106                         | <b>114</b>                | 58.7                      | 36                      | 0              | 6/16            | 10.4                   |
| WA8398               |                             | 103                         | <b>112</b>                | 59.0                      | 38                      | 0              | 6/14            | 10.6                   |
| VI Gem               |                             | 107                         | <b>111</b>                | 60.1                      | 38                      | 0              | 6/12            | 10.7                   |
| WA8404               |                             | 104                         | <b>110</b>                | 58.7                      | 38                      | 0              | 6/14            | 10.8                   |
| UIL17-550099A        |                             | 105                         | <b>110</b>                | 59.7                      | 39                      | 0              | 6/16            | 11.0                   |
| WA8397               |                             | 102                         | 109                       | 58.1                      | 39                      | 0              | 6/15            | 10.7                   |
| GS Bounty            |                             |                             | 109                       | 59.6                      | 41                      | 0              | 6/16            | 10.6                   |
| WA8405               |                             | 101                         | 109                       | 56.8                      | 40                      | 0              | 6/16            | 11.4                   |
| UIL16-478001A        | 106                         | 103                         | 109                       | 59.2                      | 38                      | 1              | 6/14            | 10.7                   |
| UIL17-995133B        |                             |                             | 108                       | 61.9                      | 36                      | 0              | 6/11            | 11.0                   |
| UIL16-007057A        |                             |                             | 108                       | 59.3                      | 41                      | 0              | 6/12            | 10.8                   |
| LCS Hulk             | 107                         | 103                         | 106                       | 59.8                      | 38                      | 0              | 6/14            | 10.1                   |
| LCS Blackjack        | 106                         | 102                         | 106                       | 57.4                      | 35                      | 0              | 6/15            | 10.0                   |
| ARSRS14X1114-1-3CBW* |                             |                             | 105                       | 59.1                      | 36                      | 0              | 6/14            | 9.6                    |
| WB1922               | 101                         | 97                          | 104                       | 61.0                      | 40                      | 0              | 6/19            | 11.0                   |
| UI Vixen             | 103                         | 102                         | 103                       | 61.2                      | 39                      | 0              | 6/15            | 10.3                   |
| UI Sparrow           | 106                         | 99                          | 103                       | 58.8                      | 39                      | 0              | 6/16            | 9.9                    |
| WB1720               | 103                         | 100                         | 103                       | 60.1                      | 36                      | 0              | 6/13            | 10.7                   |
| LCS Shine            | 110                         | 104                         | 103                       | 57.7                      | 32                      | 0              | 6/12            | 9.9                    |
| Cameo*               | 102                         | 98                          | 102                       | 58.3                      | 37                      | 0              | 6/14            | 10.7                   |
| OR5180071*           |                             | 95                          | 101                       | 60.2                      | 36                      | 0              | 6/15            | 10.2                   |
| OR5180072*           |                             | 97                          | 101                       | 59.1                      | 37                      | 0              | 6/13            | 10.3                   |
| Gale                 |                             |                             | 101                       | 56.4                      | 34                      | 0              | 6/15            | 10.7                   |
| Norwest Duet         | 100                         | 98                          | 100                       | 60.0                      | 42                      | 0              | 6/17            | 10.6                   |
| Nimbus               | 103                         | 98                          | 100                       | 60.0                      | 40                      | 0              | 6/12            | 10.7                   |
| TMC M-Press          |                             |                             | 99                        | 60.0                      | 35                      | 0              | 6/16            | 10.7                   |
| Norwest Tandem       | 101                         | 96                          | 98                        | 59.8                      | 33                      | 0              | 6/11            | 10.6                   |
| Coda*                | 97                          | 92                          | 98                        | 62.1                      | 41                      | 3              | 6/19            | 11.1                   |
| Stephens             | 101                         | 96                          | 98                        | 59.4                      | 35                      | 0              | 6/11            | 10.9                   |
| Bruneau              | 106                         | 101                         | 98                        | 58.7                      | 38                      | 0              | 6/17            | 10.8                   |
| UIL14-211120A        |                             | 100                         | 97                        | 60.2                      | 39                      | 0              | 6/10            | 10.4                   |
| TMC M-Pire           |                             | 98                          | 95                        | 61.0                      | 33                      | 0              | 6/10            | 10.9                   |
| Calyspo*             | 94                          | 95                          | 94                        | 61.6                      | 38                      | 0              | 6/13            | 10.8                   |
| AP Iliad             | 106                         | 95                          | 88                        | 58.2                      | 34                      | 0              | 6/13            | 10.8                   |
| Brundage 96          | 98                          | 92                          | 87                        | 59.8                      | 37                      | 0              | 6/15            | 10.8                   |
| LCS Kamiak           | 107                         | 98                          | 87                        | 59.5                      | 34                      | 0              | 6/9             | 10.9                   |
| IDO1708W             |                             | 91                          | 87                        | 57.4                      | 34                      | 0              | 6/10            | 10.0                   |
| WB1545               |                             |                             | 76                        | 62.5                      | 32                      | 0              | 6/9             | 10.9                   |
| Average              | <b>105</b>                  | <b>100</b>                  | <b>102</b>                | <b>59.6</b>               | <b>37</b>               | <b>&lt;1</b>   | <b>6/13</b>     | <b>10.6</b>            |
| LSD (0.05)           | <b>7</b>                    | <b>7</b>                    | <b>11</b>                 | <b>0.8</b>                | <b>2</b>                | <b>ns</b>      | <b>2.1</b>      | --                     |
| CV (%)               | <b>8.2</b>                  | <b>6.5</b>                  | <b>7.5</b>                | <b>0.9</b>                | <b>4.0</b>              | <b>957.7</b>   | <b>20.0</b>     | --                     |

\*Club wheat

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

**Table 10. Soft white winter wheat variety performance results at Tensed, 2024.**

| Variety or Selection | 3-Year<br>Average<br>(bu/A) | 2-Year<br>Average<br>(bu/A) | 2023–24 Crop Year         |                           |                         |                |                 |                        |
|----------------------|-----------------------------|-----------------------------|---------------------------|---------------------------|-------------------------|----------------|-----------------|------------------------|
|                      |                             |                             | Seed<br>Yield<br>(bu/A)** | Test<br>Weight<br>(lb/bu) | Plant<br>Height<br>(in) | Lodging<br>(%) | Heading<br>Date | Seed<br>Protein<br>(%) |
| LCS Shine            | 133                         | 129                         | <b>132</b>                | 60.8                      | 31                      | 0              | 6/10            | 11.6                   |
| WA8405               |                             | 120                         | <b>123</b>                | 59.9                      | 39                      | 0              | 6/12            | 12.2                   |
| WA8398               |                             | 118                         | <b>123</b>                | 60.4                      | 38                      | 0              | 6/12            | 12.9                   |
| UI Sparrow           | 123                         | 121                         | <b>122</b>                | 59.0                      | 39                      | 0              | 6/17            | 12.1                   |
| LCS Jefe             | 124                         | 120                         | <b>121</b>                | 60.8                      | 33                      | 0              | 6/11            | 11.6                   |
| WA8404               |                             | 119                         | 117                       | 60.0                      | 38                      | 0              | 6/11            | 12.2                   |
| Cameo*               | 122                         | 114                         | 116                       | 61.2                      | 38                      | 0              | 6/14            | 13.7                   |
| Coda*                | 117                         | 114                         | 116                       | 62.7                      | 40                      | 0              | 6/16            | 13.2                   |
| WA8397               |                             | 116                         | 116                       | 60.3                      | 37                      | 0              | 6/12            | 11.9                   |
| Norwest Tandem       | 111                         | 103                         | 113                       | 59.7                      | 33                      | 0              | 6/10            | 12.6                   |
| UIL16-007057A        |                             |                             | 113                       | 59.9                      | 39                      | 0              | 6/12            | 13.1                   |
| UI Vixen             | 114                         | 112                         | 111                       | 61.1                      | 36                      | 0              | 6/14            | 12.7                   |
| GS Bounty            |                             |                             | 110                       | 59.9                      | 41                      | 0              | 6/12            | 12.7                   |
| Norwest Duet         | 117                         | 115                         | 110                       | 60.5                      | 39                      | 0              | 6/15            | 12.3                   |
| ARSRS14X1114-1-3CBW* |                             |                             | 107                       | 60.7                      | 35                      | 0              | 6/13            | 12.0                   |
| WB1922               | 115                         | 108                         | 106                       | 61.3                      | 36                      | 0              | 6/19            | 12.7                   |
| Nimbus               | 117                         | 109                         | 105                       | 60.3                      | 39                      | 0              | 6/10            | 12.8                   |
| OR5180072*           |                             | 104                         | 103                       | 59.8                      | 35                      | 0              | 6/15            | 12.4                   |
| UIL17-995133B        |                             | 105                         | 102                       | 61.9                      | 33                      | 0              | 6/10            | 12.4                   |
| OR5180071*           |                             | 104                         | 101                       | 61.4                      | 35                      | 0              | 6/14            | 12.3                   |
| UIL17-550099A        |                             |                             | 98                        | 57.8                      | 37                      | 0              | 6/13            | 13.1                   |
| Calyspo*             | 116                         | 109                         | 98                        | 62.4                      | 37                      | 0              | 6/12            | 13.9                   |
| VI Gem               |                             | 104                         | 98                        | 59.5                      | 35                      | 0              | 6/12            | 12.6                   |
| UIL16-478001A        | 108                         | 101                         | 96                        | 58.8                      | 35                      | 0              | 6/12            | 12.9                   |
| Bruneau              | 109                         | 103                         | 95                        | 59.7                      | 35                      | 0              | 6/14            | 13.3                   |
| AP Exceed            | 110                         | 100                         | 95                        | 61.1                      | 33                      | 0              | 6/10            | 12.7                   |
| WB1720               | 104                         | 100                         | 94                        | 58.4                      | 33                      | 0              | 6/12            | 13.6                   |
| LCS Hulk             | 108                         | 98                          | 94                        | 59.2                      | 34                      | 0              | 6/12            | 13.2                   |
| AP Olympia           |                             |                             | 94                        | 59.0                      | 33                      | 0              | 6/12            | 13.3                   |
| TMC M-Press          |                             |                             | 93                        | 59.9                      | 35                      | 0              | 6/12            | 13.0                   |
| AP Iliad             | 109                         | 101                         | 92                        | 58.9                      | 32                      | 0              | 6/11            | 12.8                   |
| LCS Kamiak           | 112                         | 106                         | 92                        | 58.7                      | 32                      | 0              | 6/10            | 13.9                   |
| WB1621               | 110                         | 99                          | 89                        | 62.0                      | 32                      | 0              | 6/11            | 13.5                   |
| TMC M-Pire           |                             | 103                         | 89                        | 59.9                      | 32                      | 0              | 6/11            | 13.4                   |
| LCS Blackjack        | 110                         | 102                         | 88                        | 56.9                      | 34                      | 0              | 6/12            | 12.8                   |
| UIL14-211120A        |                             | 99                          | 85                        | 57.0                      | 36                      | 0              | 6/11            | 13.0                   |
| Brundage 96          | 103                         | 98                          | 84                        | 58.1                      | 34                      | 0              | 6/12            | 13.4                   |
| WB1545               |                             |                             | 74                        | 60.8                      | 30                      | 0              | 6/10            | 13.7                   |
| IDO1708W             |                             | 87                          | 69                        | 56.6                      | 32                      | 0              | 6/10            | 13.3                   |
| Gale                 |                             |                             | 69                        | 54.4                      | 30                      | 0              | 6/14            | 13.0                   |
| Stephens             | 88                          | 82                          | 62                        | 54.6                      | 31                      | 0              | 6/12            | 14.3                   |
| Average              | <b>113</b>                  | <b>107</b>                  | <b>100</b>                | <b>59.6</b>               | <b>35</b>               | <b>0</b>       | <b>6/12</b>     | <b>12.9</b>            |
| LSD (0.05)           | <b>9</b>                    | <b>12</b>                   | <b>12</b>                 | <b>0.9</b>                | <b>2</b>                | --             | <b>0.9</b>      | --                     |
| CV (%)               | <b>9.4</b>                  | <b>11.1</b>                 | <b>8.7</b>                | <b>1.1</b>                | <b>5.0</b>              | --             | <b>10.9</b>     | --                     |

\*Club wheat

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

Table 11. Soft white winter wheat performance comparison across northern Idaho, 2024.

| Variety or Selection | 2023–24 Crop Year*** |              |                     |                  |            |            |            |            |            |             |              |              |              |
|----------------------|----------------------|--------------|---------------------|------------------|------------|------------|------------|------------|------------|-------------|--------------|--------------|--------------|
|                      | 3-Year Yield**       | 2-Year Yield | North Idaho Average | Bonn timer Ferry | Genesee    | Lewiston   | Moscow     | Nezperce   | Tensed     | Test Weight | Plant Height | Lodging      | Seed Protein |
|                      | bu/A                 |              |                     |                  |            |            |            |            |            | (lb/bu)     | (inches)     | (%)          | (%)          |
| LCS Jefe             | <b>124</b>           | <b>121</b>   | 132                 | <b>133</b>       | <b>142</b> | <b>139</b> | <b>133</b> | <b>114</b> | <b>121</b> | 61.0        | 37           | 0            | 10.5         |
| WA8398               |                      | 115          | 127                 | <b>123</b>       | <b>142</b> | <b>138</b> | 119        | <b>112</b> | <b>123</b> | 60.7        | 39           | 0            | 11.2         |
| WA8397               |                      | 116          | 126                 | <b>133</b>       | <b>141</b> | <b>130</b> | <b>121</b> | 109        | 116        | 60.3        | 38           | 0            | 11.0         |
| WA8404               |                      | 116          | 125                 | <b>125</b>       | <b>140</b> | <b>139</b> | 114        | <b>110</b> | 117        | 60.5        | 39           | 0            | 11.1         |
| ARSRS14X1114-1-3CBW* |                      |              | 124                 | <b>124</b>       | <b>148</b> | <b>143</b> | 115        | 105        | 107        | 61.1        | 36           | 0            | 10.2         |
| WA8405               |                      | 114          | 123                 | <b>127</b>       | 137        | 125        | 117        | 109        | <b>123</b> | 59.7        | 39           | 0            | 11.1         |
| VI Gem               |                      | <b>118</b>   | 123                 | <b>136</b>       | <b>140</b> | <b>130</b> | <b>121</b> | <b>111</b> | 98         | 61.2        | 38           | 0            | 10.8         |
| UI Sparrow           | 118                  | 113          | 122                 | <b>129</b>       | 129        | 126        | <b>121</b> | 103        | <b>122</b> | 59.6        | 40           | 0            | 10.7         |
| Norwest Tandem       | 113                  | 111          | 121                 | <b>132</b>       | 125        | <b>140</b> | 117        | 98         | 113        | 60.9        | 34           | 0            | 11.0         |
| LCS Blackjack        | 119                  | 117          | 120                 | <b>136</b>       | 128        | <b>141</b> | <b>122</b> | 106        | 88         | 58.9        | 36           | 0            | 10.8         |
| UI Vixen             | 118                  | 115          | 119                 | <b>124</b>       | 135        | 128        | 109        | 103        | 111        | 62.1        | 39           | <1           | 10.9         |
| LCS Hulk             | 117                  | 113          | 119                 | <b>138</b>       | 123        | <b>139</b> | 109        | 106        | 94         | 61.4        | 38           | 0            | 11.1         |
| WB1922               | 115                  | 110          | 118                 | <b>132</b>       | 130        | 126        | 110        | 104        | 106        | 62.5        | 39           | 0            | 11.4         |
| UIL16-007057A        |                      |              | 118                 | 113              | 137        | 128        | 108        | 108        | 113        | 60.5        | 40           | 0            | 11.6         |
| GS Bounty            |                      |              | 118                 | <b>125</b>       | 138        | 128        | 100        | 109        | 110        | 60.9        | 41           | 0            | 11.2         |
| Norwest Duet         | 116                  | 113          | 118                 | <b>125</b>       | 129        | <b>132</b> | 106        | 100        | 110        | 61.2        | 43           | 0            | 11.1         |
| Cameo*               | 116                  | 107          | 117                 | 118              | 130        | 127        | 109        | 102        | 116        | 60.4        | 38           | 0            | 11.1         |
| WB1720               | 113                  | 109          | 117                 | <b>132</b>       | 138        | 127        | 107        | 103        | 94         | 61.3        | 35           | 0            | 11.3         |
| UIL17-995133B        |                      | 114          | 116                 | 114              | 125        | <b>145</b> | 100        | 108        | 102        | 62.6        | 36           | 0            | 11.1         |
| UIL16-478001A        | 115                  | 111          | 116                 | 122              | 137        | 121        | 108        | 109        | 96         | 60.9        | 38           | <1           | 10.9         |
| TMC M-Pire           |                      | 113          | 115                 | <b>123</b>       | 137        | <b>138</b> | 108        | 95         | 89         | 62.0        | 34           | 0            | 11.0         |
| UIL14-211120A        |                      | 113          | 115                 | 115              | 129        | <b>143</b> | 119        | 97         | 85         | 59.9        | 39           | 0            | 11.1         |
| Nimbus               | 117                  | 111          | 115                 | 115              | 127        | <b>133</b> | 103        | 100        | 105        | 61.1        | 41           | 0            | 11.0         |
| TMC M-Press          |                      |              | 114                 | 115              | 131        | <b>140</b> | 106        | 99         | 93         | 61.3        | 37           | 0            | 11.1         |
| UIL17-550099A        |                      |              | 114                 | 116              | 124        | 126        | 104        | <b>110</b> | 98         | 60.1        | 38           | 0            | 11.7         |
| Gale                 |                      |              | 113                 | 111              | 137        | <b>130</b> | <b>128</b> | 101        | 69         | 57.8        | 34           | 0            | 11.1         |
| OR5180071*           |                      | 106          | 112                 | 118              | 129        | 120        | 104        | 101        | 101        | 61.3        | 36           | 0            | 10.7         |
| Coda*                | 110                  | 105          | 112                 | 116              | 124        | 117        | 99         | 98         | 116        | 62.8        | 40           | 2            | 11.4         |
| OR5180072*           |                      | 107          | 112                 | 116              | 128        | 125        | 95         | 101        | 103        | 60.0        | 37           | 0            | 10.8         |
| LCS Kamiak           | 120                  | 114          | 111                 | 122              | 130        | <b>143</b> | 88         | 87         | 92         | 61.2        | 35           | 0            | 11.5         |
| Bruneau              | 116                  | 110          | 111                 | 114              | 129        | 118        | 108        | 98         | 95         | 60.8        | 39           | <1           | 11.3         |
| Calyspo*             | 110                  | 105          | 110                 | 120              | 133        | 113        | 98         | 94         | 98         | 62.5        | 38           | 0            | 11.4         |
| AP Iliad             | 117                  |              | 107                 | 101              | 132        | <b>142</b> | 96         | 88         | 92         | 60.6        | 36           | 0            | 11.2         |
| Brundage 96          | 109                  | 105          | 106                 | 113              | 123        | 121        | 103        | 87         | 84         | 60.6        | 37           | 0            | 11.5         |
| WB1545               |                      |              | 103                 | 109              | 122        | <b>130</b> | 105        | 76         | 74         | 63.1        | 35           | 0            | 11.5         |
| Stephens             | 104                  | 101          | 103                 | 109              | 123        | 114        | 109        | 98         | 62         | 59.6        | 36           | 0            | 11.7         |
| IDO1708W             |                      | 101          | 102                 | 112              | 116        | 126        | 102        | 87         | 69         | 59.2        | 36           | 0            | 11.2         |
| LCS Shine            | <b>124</b>           |              | --                  | --               | 122        | 129        | <b>130</b> | 103        | <b>132</b> | 60.5        | 33           | 0            | 10.9         |
| WB1621               | 118                  |              | --                  | --               | 123        | <b>136</b> | 107        | <b>116</b> | 89         | 63.1        | 37           | 0            | 11.2         |
| AP Exceed            |                      |              | --                  | --               | <b>149</b> | <b>133</b> | 120        | <b>120</b> | 95         | --          | --           | --           | --           |
| AP Olympia           |                      |              | --                  | --               | 132        | <b>142</b> | 94         | <b>117</b> | 94         | --          | --           | --           | --           |
| LCS Artdeco          |                      |              | --                  | --               | --         | <b>134</b> | --         | --         | --         | --          | --           | --           | --           |
| Average              | <b>116</b>           | <b>111</b>   | <b>116</b>          | <b>121</b>       | <b>132</b> | <b>131</b> | <b>110</b> | <b>102</b> | <b>100</b> | <b>60.9</b> | <b>37</b>    | <b>&lt;1</b> | <b>11.1</b>  |
| LSD (0.05)           | <b>4</b>             | <b>4</b>     | <b>6</b>            | <b>16</b>        | <b>11</b>  | <b>16</b>  | <b>13</b>  | <b>11</b>  | <b>12</b>  | <b>0.3</b>  | <b>1</b>     | <b>ns</b>    | --           |
| CV (%)               | <b>8.1</b>           | <b>8.4</b>   | <b>9.1</b>          | <b>9.0</b>       | <b>6.0</b> | <b>8.2</b> | <b>8.3</b> | <b>7.5</b> | <b>8.7</b> | <b>1.0</b>  | <b>4.6</b>   | <b>880.9</b> | --           |

\*Club wheat

\*\*3-year average does not include Bonners Ferry or Moscow as these locations were not seeded in 2022.

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

**Table 12. Soft white winter wheat (herbicide-resistant) variety performance results at Bonners Ferry, 2024.**

| Variety or Selection* | 3-Year Average (bu/A)** | 2-Year Average (bu/A) | 2023–24 Crop Year    |                     |                   |             |                  |
|-----------------------|-------------------------|-----------------------|----------------------|---------------------|-------------------|-------------|------------------|
|                       |                         |                       | Seed Yield (bu/A)*** | Test Weight (lb/bu) | Plant Height (in) | Lodging (%) | Seed Protein (%) |
| Piranha CL+           | 120                     | 121                   | <b>133</b>           | 61.9                | 40                | 0           | 9.7              |
| Sockeye CL+           | 109                     | 117                   | <b>132</b>           | 61.6                | 39                | 0           | 9.5              |
| Nova AX               |                         |                       | <b>125</b>           | 62.7                | 36                | 0           | 9.8              |
| VI Presto CL+         | 112                     | 110                   | <b>124</b>           | 63.4                | 40                | 0           | 9.9              |
| VI Encore CL+         | 114                     | 113                   | <b>123</b>           | 63.0                | 37                | 0           | 10.3             |
| Stingray CL+          | 108                     | 106                   | 120                  | 62.8                | 35                | 0           | 10.0             |
| Brundage 96           |                         | 111                   | 119                  | 62.4                | 36                | 0           | 10.2             |
| LCS Hydra AX          |                         |                       | 119                  | 62.5                | 37                | 0           | 9.6              |
| Stephens              | 106                     | 110                   | 116                  | 62.4                | 35                | 0           | 10.3             |
| LCS Kraken AX         |                         |                       | 114                  | 63.4                | 41                | 0           | 10.4             |
| LCS Scorpion AX       |                         |                       | 111                  | 61.9                | 35                | 0           | 10.0             |
| Mallory CL+           |                         |                       | 109                  | 61.6                | 31                | 0           | 9.9              |
| Appleby CL+           | 94                      | 91                    | 108                  | 62.9                | 35                | 0           | 11.0             |
| VI Voodoo CL+         | 103                     | 99                    | 107                  | 62.6                | 32                | 0           | 9.9              |
| Average               | <b>108</b>              | <b>108</b>            | <b>119</b>           | <b>62.5</b>         | <b>36</b>         | <b>0</b>    | <b>10.0</b>      |
| LSD (0.05)            | 7                       | 8                     | 13                   | 0.4                 | 2                 | --          | --               |
| CV (%)                | 8.3                     | 7.6                   | 7.3                  | 0.5                 | 3.2               | --          | --               |

\*Stephens and Brundage 96 were used as common controls between the two soft white wheat trials.

\*\*3-year averages were calculated using data from the current year along with 2020 and 2023. The Bonners Ferry location was not seeded in 2021 or 2022.

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

**Table 13. Soft white winter wheat (herbicide-resistant) variety performance results at Genesee, 2024.**

| Variety or Selection* | 3-Year Average (bu/A) | 2-Year Average (bu/A) | 2023–24 Crop Year   |                     |                   |             |              |                  |
|-----------------------|-----------------------|-----------------------|---------------------|---------------------|-------------------|-------------|--------------|------------------|
|                       |                       |                       | Seed Yield (bu/A)** | Test Weight (lb/bu) | Plant Height (in) | Lodging (%) | Heading Date | Seed Protein (%) |
| Sockeye CL+           | 130                   | 137                   | <b>149</b>          | 61.2                | 42                | 0           | 6/7          | 11.0             |
| Mallory CL+           |                       |                       | <b>146</b>          | 62.8                | 39                | 0           | 5/31         | 11.7             |
| Piranha CL+           | 128                   | 135                   | <b>146</b>          | 61.9                | 42                | 0           | 6/7          | 10.9             |
| Nova AX               |                       |                       | <b>143</b>          | 62.4                | 44                | 0           | 6/5          | 11.2             |
| VI Voodoo CL+         | 123                   | 126                   | 139                 | 62.9                | 36                | 0           | 6/3          | 10.5             |
| LCS Hydra AX          |                       |                       | 138                 | 64.3                | 41                | 0           | 6/3          | 10.8             |
| VI Encore CL+         | 123                   | 127                   | 135                 | 63.2                | 39                | 0           | 6/5          | 11.5             |
| LCS Scorpion AX       |                       |                       | 131                 | 62.5                | 41                | 0           | 6/3          | 11.4             |
| Stingray CL+          | 115                   | 118                   | 129                 | 62.4                | 39                | 0           | 6/6          | 11.7             |
| Appleby CL+           |                       | 114                   | 128                 | 63.4                | 42                | 0           | 6/3          | 11.4             |
| Brundage 96           | 112                   | 115                   | 124                 | 62.2                | 39                | 0           | 6/6          | 11.7             |
| Stephens              | 114                   | 117                   | 122                 | 63.1                | 38                | 0           | 6/3          | 11.1             |
| LCS Kraken AX         |                       |                       | 121                 | 62.8                | 42                | 0           | 6/5          | 11.0             |
| VI Presto CL+         | 113                   | 113                   | 119                 | 64.5                | 43                | 0           | 6/7          | 12.0             |
| Average               | <b>120</b>            | <b>122</b>            | <b>133</b>          | <b>62.8</b>         | <b>40</b>         | <b>0</b>    | <b>6/4</b>   | <b>11.3</b>      |
| LSD (0.05)            | <b>6</b>              | <b>6</b>              | <b>8</b>            | <b>0.4</b>          | <b>2</b>          | --          | <b>1.2</b>   | --               |
| CV (%)                | <b>6.2</b>            | <b>5.2</b>            | <b>4.4</b>          | <b>0.5</b>          | <b>2.9</b>        | --          | <b>10.5</b>  | --               |

\*Stephens and Brundage 96 were used as common controls between the two soft white wheat trials.

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

**Table 14. Soft white winter wheat (herbicide-resistant) variety performance results at Lewiston, 2024.**

| Variety or Selection* | 3-Year Average (bu/A) | 2-Year Average (bu/A) | 2023–24 Crop Year   |                     |                   |             |              |                  |
|-----------------------|-----------------------|-----------------------|---------------------|---------------------|-------------------|-------------|--------------|------------------|
|                       |                       |                       | Seed Yield (bu/A)** | Test Weight (lb/bu) | Plant Height (in) | Lodging (%) | Heading Date | Seed Protein (%) |
| Mallory CL+           |                       |                       | <b>144</b>          | 62.2                | 40                | 0           | 5/20         | 12.2             |
| LCS Scorpion AX       |                       |                       | <b>137</b>          | 61.9                | 40                | 0           | 5/26         | 12.0             |
| VI Encore CL+         | 133                   | 131                   | <b>137</b>          | 63.5                | 40                | 0           | 5/27         | 12.0             |
| VI Voodoo CL+         | 133                   | 128                   | <b>136</b>          | 60.8                | 35                | 0           | 5/27         | 11.8             |
| Stingray CL+          | 130                   |                       | <b>133</b>          | 62.1                | 40                | 0           | 5/29         | 12.7             |
| Piranha CL+           | 134                   | 125                   | <b>133</b>          | 61.8                | 43                | 0           | 5/27         | 12.0             |
| Sockeye CL+           | 133                   | 123                   | 131                 | 61.8                | 43                | 0           | 5/28         | 11.4             |
| Nova AX               |                       |                       | 128                 | 61.1                | 42                | 0           | 5/27         | 12.1             |
| VI Presto CL+         | 128                   | 122                   | 126                 | 64.1                | 43                | 0           | 5/26         | 11.8             |
| Appleby CL+           | 125                   | 119                   | 124                 | 63.2                | 41                | 0           | 5/25         | 11.8             |
| LCS Hydra AX          |                       |                       | 123                 | 63.2                | 39                | 0           | 5/26         | 11.3             |
| Brundage 96           | 123                   | 116                   | 122                 | 62.1                | 38                | 0           | 5/27         | 12.5             |
| LCS Kraken AX         |                       |                       | 121                 | 62.1                | 44                | 0           | 5/27         | 12.2             |
| Stephens              | 118                   | 106                   | 113                 | 60.0                | 36                | 0           | 5/26         | 12.4             |
| <b>Average</b>        | <b>129</b>            | <b>122</b>            | <b>129</b>          | <b>62.1</b>         | <b>40</b>         | <b>0</b>    | <b>5/26</b>  | <b>12.0</b>      |
| <b>LSD (0.05)</b>     | <b>6</b>              | <b>8</b>              | <b>13</b>           | <b>0.9</b>          | <b>2</b>          | <b>--</b>   | <b>1.2</b>   | <b>--</b>        |
| <b>CV (%)</b>         | <b>5.4</b>            | <b>6.5</b>            | <b>6.9</b>          | <b>1.0</b>          | <b>2.8</b>        | <b>--</b>   | <b>10.3</b>  | <b>--</b>        |

\*Stephens and Brundage 96 were used as common controls between the two soft white wheat trials.

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

**Table 15. Soft white winter wheat (herbicide-resistant) variety performance results at Moscow, 2024.**

| Variety or Selection* | 3-Year Average (bu/A)** | 2-Year Average (bu/A) | 2023–24 Crop Year    |                     |                   |             |              |                  |
|-----------------------|-------------------------|-----------------------|----------------------|---------------------|-------------------|-------------|--------------|------------------|
|                       |                         |                       | Seed Yield (bu/A)*** | Test Weight (lb/bu) | Plant Height (in) | Lodging (%) | Heading Date | Seed Protein (%) |
| VI Voodoo CL+         | 133                     | 125                   | <b>125</b>           | 58.9                | 35                | 0           | 6/4          | 10.4             |
| Sockeye CL+           | 139                     | 128                   | <b>125</b>           | 59.2                | 41                | 0           | 6/7          | 10.9             |
| Stingray CL+          | 126                     | 118                   | <b>117</b>           | 59.3                | 36                | 0           | 6/7          | 11.6             |
| VI Presto CL+         | 127                     | 120                   | <b>116</b>           | 61.1                | 40                | 0           | 6/7          | 11.6             |
| VI Encore CL+         | 130                     | 123                   | 115                  | 59.6                | 38                | 0           | 6/7          | 11.0             |
| LCS Scorpion AX       |                         |                       | 114                  | 59.4                | 36                | 0           | 6/3          | 11.5             |
| LCS Hydra AX          |                         |                       | 113                  | 61.8                | 37                | 0           | 6/6          | 10.8             |
| Piranha CL+           | 135                     | 123                   | 113                  | 59.3                | 39                | 0           | 6/9          | 10.8             |
| Stephens              | 119                     | 112                   | 110                  | 59.4                | 37                | 0           | 6/3          | 11.1             |
| Brundage 96           |                         | 113                   | 110                  | 59.9                | 36                | 0           | 6/8          | 11.6             |
| Nova AX               |                         |                       | 107                  | 59.1                | 40                | 0           | 6/7          | 11.0             |
| Mallory CL+           |                         |                       | 102                  | 58.1                | 35                | 0           | 6/2          | 11.1             |
| Appleby CL+           |                         | 109                   | 101                  | 59.7                | 40                | 0           | 6/4          | 11.0             |
| LCS Kraken AX         |                         |                       | 99                   | 58.9                | 40                | 0           | 6/7          | 10.6             |
| <b>Average</b>        | <b>130</b>              | <b>119</b>            | <b>112</b>           | <b>59.5</b>         | <b>38</b>         | <b>0</b>    | <b>6/6</b>   | <b>11.1</b>      |
| <b>LSD (0.05)</b>     | <b>6</b>                | <b>9</b>              | <b>10</b>            | <b>0.7</b>          | <b>2</b>          | <b>--</b>   | <b>1.2</b>   | <b>--</b>        |
| <b>CV (%)</b>         | <b>6.1</b>              | <b>7.2</b>            | <b>6.3</b>           | <b>0.8</b>          | <b>3.2</b>        | <b>--</b>   | <b>10.8</b>  | <b>--</b>        |

\*Stephens and Brundage 96 were used as common controls between the two soft white wheat trials.

\*\*3-year averages were calculated using data from the current year along with 2020 and 2023. The Moscow location was not seeded in 2021 or 2022.

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

**Table 16. Soft white winter wheat (herbicide-resistant) variety performance results at Nezperce, 2024.**

| Variety or Selection* | 3-Year Average (bu/A) | 2-Year Average (bu/A) | 2023–24 Crop Year   |                     |                   |             |              |                  |
|-----------------------|-----------------------|-----------------------|---------------------|---------------------|-------------------|-------------|--------------|------------------|
|                       |                       |                       | Seed Yield (bu/A)** | Test Weight (lb/bu) | Plant Height (in) | Lodging (%) | Heading Date | Seed Protein (%) |
| Sockeye CL+           | 100                   | 105                   | <b>118</b>          | 57.8                | 43                | 0           | 6/15         | 11.3             |
| VI Encore CL+         | 103                   | 102                   | <b>112</b>          | 58.7                | 37                | 0           | 6/14         | 11.0             |
| Appleby CL+           |                       | 97                    | <b>107</b>          | 59.6                | 41                | 0           | 6/14         | 11.3             |
| Nova AX               |                       |                       | <b>107</b>          | 57.7                | 43                | 0           | 6/14         | 10.9             |
| Stingray CL+          | 93                    | 95                    | 104                 | 57.3                | 37                | 0           | 6/15         | 11.4             |
| Mallory CL+           |                       |                       | 104                 | 57.8                | 36                | 0           | 6/12         | 11.3             |
| LCS Kraken AX         |                       |                       | 104                 | 59.2                | 43                | 0           | 6/17         | 11.0             |
| Piranha CL+           | 97                    | 99                    | 103                 | 58.0                | 41                | 0           | 6/17         | 11.3             |
| VI Presto CL+         | 98                    | 99                    | 102                 | 61.4                | 41                | 0           | 6/14         | 11.1             |
| LCS Scorpion AX       |                       |                       | 100                 | 59.1                | 37                | 0           | 6/10         | 10.4             |
| LCS Hydra AX          |                       |                       | 100                 | 60.2                | 38                | 0           | 6/15         | 10.6             |
| VI Voodoo CL+         | 98                    | 95                    | 100                 | 57.4                | 32                | 0           | 6/13         | 11.2             |
| Stephens              | 96                    | 96                    | 98                  | 58.8                | 37                | 0           | 6/11         | 11.1             |
| Brundage 96           | 91                    | 93                    | 95                  | 59.3                | 38                | 0           | 6/15         | 11.2             |
| <b>Average</b>        | <b>97</b>             | <b>98</b>             | <b>104</b>          | <b>58.7</b>         | <b>39</b>         | <b>0</b>    | <b>6/14</b>  | <b>11.1</b>      |
| <b>LSD (0.05)</b>     | <b>6</b>              | <b>6</b>              | <b>12</b>           | <b>0.8</b>          | <b>2</b>          | --          | <b>2.0</b>   | --               |
| <b>CV (%)</b>         | <b>7.1</b>            | <b>6.2</b>            | <b>8.1</b>          | <b>0.9</b>          | <b>3.0</b>        | --          | <b>18.0</b>  | --               |

\*Stephens and Brundage 96 were used as common controls between the two soft white wheat trials.

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

**Table 17. Soft white winter wheat (herbicide-resistant) variety performance results at Tensed, 2024.**

| Variety or Selection* | 3-Year Average (bu/A) | 2-Year Average (bu/A) | 2023–24 Crop Year   |                     |                   |             |              |                  |
|-----------------------|-----------------------|-----------------------|---------------------|---------------------|-------------------|-------------|--------------|------------------|
|                       |                       |                       | Seed Yield (bu/A)** | Test Weight (lb/bu) | Plant Height (in) | Lodging (%) | Heading Date | Seed Protein (%) |
| Nova AX               |                       |                       | <b>115</b>          | 61.1                | 39                | 0           | 6/12         | 12.5             |
| Sockeye CL+           | 121                   | 116                   | <b>114</b>          | 59.3                | 38                | 0           | 6/13         | 12.5             |
| Piranha CL+           | 120                   | 112                   | <b>109</b>          | 59.4                | 38                | 0           | 6/13         | 12.9             |
| Stingray CL+          | 116                   | 108                   | <b>105</b>          | 59.6                | 37                | 0           | 6/12         | 13.1             |
| LCS Scorpion AX       |                       |                       | 104                 | 59.7                | 36                | 0           | 6/11         | 12.9             |
| VI Encore CL+         | 114                   | 106                   | 103                 | 60.9                | 36                | 0           | 6/12         | 13.2             |
| LCS Hydra AX          |                       |                       | 98                  | 61.9                | 35                | 0           | 6/11         | 12.8             |
| LCS Kraken AX         |                       |                       | 97                  | 60.6                | 38                | 0           | 6/12         | 12.9             |
| Mallory CL+           |                       |                       | 94                  | 58.7                | 34                | 0           | 6/10         | 13.0             |
| Appleby CL+           |                       | 98                    | 92                  | 60.7                | 35                | 0           | 6/10         | 13.4             |
| Brundage 96           | 105                   | 102                   | 91                  | 58.9                | 35                | 0           | 6/12         | 13.6             |
| VI Presto CL+         | 103                   | 97                    | 90                  | 60.4                | 36                | 0           | 6/12         | 13.7             |
| VI Voodoo CL+         | 106                   | 101                   | 81                  | 57.9                | 30                | 0           | 6/12         | 13.2             |
| Stephens              | 91                    | 87                    | 68                  | 57.2                | 33                | 0           | 6/11         | 13.9             |
| <b>Average</b>        | <b>110</b>            | <b>103</b>            | <b>97</b>           | <b>59.7</b>         | <b>35</b>         | <b>0</b>    | <b>6/12</b>  | <b>13.1</b>      |
| <b>LSD (0.05)</b>     | <b>7</b>              | <b>8</b>              | <b>11</b>           | <b>0.8</b>          | <b>3</b>          | <b>--</b>   | <b>0.9</b>   | <b>--</b>        |
| <b>CV (%)</b>         | <b>7.5</b>            | <b>7.7</b>            | <b>7.8</b>          | <b>0.9</b>          | <b>5.1</b>        | <b>--</b>   | <b>11.7</b>  | <b>--</b>        |

\*Stephens and Brundage 96 were used as common controls between the two soft white wheat trials.

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

**Table 18. Soft white winter wheat (herbicide-resistant) performance comparison across northern Idaho, 2024.**

| Variety or Selection   | 3-Year Yield* | 2-Year Yield | 2023–24 Crop Year** |                |            |            |            |            |            |             |              |          | Seed Protein |
|------------------------|---------------|--------------|---------------------|----------------|------------|------------|------------|------------|------------|-------------|--------------|----------|--------------|
|                        |               |              | North Idaho Average | Bonniers Ferry | Genesee    | Lewiston   | Moscow     | Nezperce   | Tensed     | Test Weight | Plant Height | Lodging  |              |
|                        |               |              | bu/A                |                |            |            |            |            |            | (lb/bu)     | (inches)     | (%)      | (%)          |
| <b>Sockeye CL+</b>     | 121           | 121          | <b>128</b>          | <b>132</b>     | <b>149</b> | 131        | <b>125</b> | <b>118</b> | <b>114</b> | 60.2        | 41           | 0        | 11.1         |
| <b>Piranha CL+</b>     | 120           | 119          | 123                 | <b>133</b>     | <b>146</b> | <b>133</b> | 113        | 103        | <b>109</b> | 60.4        | 40           | 0        | 11.2         |
| <b>Nova AX</b>         |               |              | 121                 | <b>125</b>     | <b>143</b> | 128        | 107        | <b>107</b> | <b>115</b> | 60.7        | 41           | 0        | 11.3         |
| <b>VI Encore CL+</b>   | 118           | 117          | 121                 | <b>123</b>     | 135        | <b>137</b> | 115        | <b>112</b> | 103        | 61.4        | 38           | 0        | 11.5         |
| <b>Stingray CL+</b>    | 113           | 111          | 118                 | 120            | 129        | <b>133</b> | <b>117</b> | 104        | <b>105</b> | 60.6        | 37           | 0        | 11.8         |
| <b>Mallory CL+</b>     |               |              | 117                 | 109            | <b>146</b> | <b>144</b> | 102        | 104        | 94         | 60.2        | 36           | 0        | 11.5         |
| <b>LCS Scorpion AX</b> |               |              | 116                 | 111            | 131        | <b>137</b> | 114        | 100        | 104        | 60.7        | 37           | 0        | 11.4         |
| <b>LCS Hydra AX</b>    |               |              | 116                 | 119            | 138        | 123        | 113        | 100        | 98         | 62.3        | 38           | 0        | 11.0         |
| <b>VI Voodoo CL+</b>   | 115           | 112          | 115                 | 107            | 139        | <b>136</b> | <b>125</b> | 100        | 81         | 60.1        | 33           | 0        | 11.2         |
| <b>VI Presto CL+</b>   | 110           | 110          | 113                 | <b>124</b>     | 119        | 126        | <b>116</b> | 102        | 90         | 62.4        | 41           | 0        | 11.7         |
| <b>Brundage 96</b>     | 108           | 108          | 110                 | 119            | 124        | 122        | 110        | 95         | 91         | 60.8        | 37           | 0        | 11.8         |
| <b>Appleby CL+</b>     |               | 105          | 110                 | 108            | 128        | 124        | 101        | <b>107</b> | 92         | 61.6        | 39           | 0        | 11.6         |
| <b>LCS Kraken AX</b>   |               |              | 110                 | 114            | 121        | 121        | 99         | 104        | 97         | 61.2        | 41           | 0        | 11.3         |
| <b>Stephens</b>        | 105           | 105          | 105                 | 116            | 122        | 113        | 110        | 98         | 68         | 60.1        | 36           | 0        | 11.6         |
| <b>Average</b>         | <b>114</b>    | <b>112</b>   | <b>116</b>          | <b>119</b>     | <b>133</b> | <b>129</b> | <b>112</b> | <b>104</b> | <b>97</b>  | <b>60.9</b> | <b>38</b>    | <b>0</b> | <b>11.4</b>  |
| <b>LSD (0.05)</b>      | <b>3</b>      | <b>3</b>     | <b>5</b>            | <b>13</b>      | <b>8</b>   | <b>13</b>  | <b>10</b>  | <b>12</b>  | <b>11</b>  | <b>0.3</b>  | <b>1</b>     | --       | --           |
| <b>CV (%)</b>          | <b>6.9</b>    | <b>7.4</b>   | <b>8.1</b>          | <b>7.3</b>     | <b>4.4</b> | <b>6.9</b> | <b>6.3</b> | <b>8.1</b> | <b>7.8</b> | <b>0.8</b>  | <b>3.8</b>   | --       | --           |

\*3-year average does not include Bonniers Ferry or Moscow as these locations were not seeded in 2022.

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

**Table 19. Hard winter wheat variety performance results at Bonners Ferry, 2024.**

| Variety or Selection | Market Class* | 3-Year Average (bu/A)** | 2-Year Average (bu/A) | 2023–24 Crop Year    |                     |                   |              |                  |
|----------------------|---------------|-------------------------|-----------------------|----------------------|---------------------|-------------------|--------------|------------------|
|                      |               |                         |                       | Seed Yield (bu/A)*** | Test Weight (lb/bu) | Plant Height (in) | Lodging (%)  | Seed Protein (%) |
| WA8401               | HRW           |                         |                       | <b>138</b>           | 63.0                | 37                | 0            | 9.3              |
| WA8399               | HRW           |                         |                       | <b>136</b>           | 63.1                | 37                | 0            | 9.6              |
| Scorpio              | HRW           | 116                     | 113                   | <b>133</b>           | 62.1                | 37                | 0            | 10.0             |
| LCS Missile          | HRW           |                         |                       | <b>131</b>           | 63.2                | 36                | 0            | 10.2             |
| UI Silver            | HWW           | 107                     | 108                   | <b>129</b>           | 64.3                | 40                | 28           | 10.6             |
| WB4510CLP            | HRW           |                         | 110                   | 127                  | 66.3                | 39                | 0            | 10.8             |
| Keldin               | HRW           | 113                     | 111                   | 124                  | 64.7                | 38                | 0            | 10.7             |
| OR2190064R           | HRW           |                         | 104                   | 122                  | 63.8                | 34                | 0            | 10.8             |
| Norwest 553          | HRW           | 102                     | 99                    | 121                  | 64.2                | 34                | 0            | 11.7             |
| LCS Evina            | HRW           |                         |                       | 120                  | 63.7                | 37                | 0            | 11.0             |
| WB4303               | HRW           | 96                      | 101                   | 119                  | 63.9                | 32                | 0            | 11.4             |
| OR2190160R           | HRW           |                         |                       | 117                  | 64.1                | 35                | 0            | 11.9             |
| Milestone            | HRW           |                         | 101                   | 107                  | 63.4                | 37                | 0            | 10.7             |
| Average              |               | <b>107</b>              | <b>106</b>            | <b>125</b>           | <b>63.8</b>         | <b>36</b>         | <b>2</b>     | <b>10.7</b>      |
| LSD (0.05)           |               | <b>7</b>                | <b>9</b>              | <b>11</b>            | <b>0.5</b>          | <b>1</b>          | <b>8</b>     | --               |
| CV (%)               |               | <b>7.4</b>              | <b>8.3</b>            | <b>6.4</b>           | <b>0.5</b>          | <b>2.8</b>        | <b>248.2</b> | --               |

\*HRW = hard red wheat, HWW = hard white wheat

\*\*3-year averages were calculated using data from the current year along with 2020 and 2023. The Bonners Ferry location was not seeded in 2021 or 2022.

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

**Table 20. Hard winter wheat variety performance results at Genesee, 2024.**

| Variety or Selection | Market Class* | 3-Year Average (bu/A) | 2-Year Average (bu/A) | 2023–24 Crop Year   |                     |                   |             |              |                  |
|----------------------|---------------|-----------------------|-----------------------|---------------------|---------------------|-------------------|-------------|--------------|------------------|
|                      |               |                       |                       | Seed Yield (bu/A)** | Test Weight (lb/bu) | Plant Height (in) | Lodging (%) | Heading Date | Seed Protein (%) |
| Scorpio              | HRW           | 115                   | 114                   | <b>133</b>          | 62.8                | 39                | 0           | 6/4          | 11.9             |
| WA8399               | HRW           |                       |                       | <b>133</b>          | 62.6                | 38                | 0           | 6/6          | 11.0             |
| LCS Missile          | HRW           |                       |                       | <b>132</b>          | 62.9                | 40                | 0           | 6/4          | 11.2             |
| WB4303               | HRW           | 122                   | 119                   | <b>131</b>          | 64.1                | 41                | 0           | 5/28         | 12.3             |
| WA8401               | HRW           |                       |                       | <b>129</b>          | 63.0                | 38                | 0           | 6/7          | 11.0             |
| Milestone            | HRW           |                       | 121                   | <b>127</b>          | 63.8                | 41                | 0           | 6/2          | 11.7             |
| OR2190160R           | HRW           |                       |                       | <b>127</b>          | 64.9                | 38                | 0           | 6/1          | 12.1             |
| Keldin               | HRW           | 126                   | 122                   | <b>127</b>          | 65.1                | 43                | 0           | 6/3          | 12.2             |
| OR2190064R           | HRW           |                       | 109                   | <b>125</b>          | 64.5                | 37                | 0           | 6/4          | 12.5             |
| WB4510CLP            | HRW           | 122                   | 122                   | <b>124</b>          | 66.3                | 44                | 0           | 6/3          | 11.5             |
| UI Silver            | HWW           |                       | 117                   | 121                 | 64.3                | 45                | 0           | 6/8          | 12.3             |
| Norwest 553          | HRW           | 105                   | 104                   | 120                 | 64.1                | 35                | 0           | 6/3          | 12.7             |
| LCS Evina            | HRW           |                       |                       | 117                 | 62.8                | 43                | 0           | 6/8          | 12.9             |
| Average              |               | <b>118</b>            | <b>117</b>            | <b>126</b>          | <b>63.9</b>         | <b>40</b>         | <b>0</b>    | <b>6/4</b>   | <b>11.9</b>      |
| LSD (0.05)           |               | <b>10</b>             | <b>9</b>              | <b>12</b>           | <b>0.5</b>          | <b>2</b>          | --          | <b>1.3</b>   | --               |
| CV (%)               |               | <b>10.0</b>           | <b>7.4</b>            | <b>6.7</b>          | <b>0.5</b>          | <b>2.9</b>        | --          | <b>12.3</b>  | --               |

\*HRW = hard red wheat, HWW = hard white wheat

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

**Table 21. Hard winter wheat variety performance results at Lewiston, 2024.**

| Variety or Selection | Market Class* | 3-Year Average (bu/A) | 2-Year Average (bu/A) | 2023–24 Crop Year   |                     |                   |             |              |                  |
|----------------------|---------------|-----------------------|-----------------------|---------------------|---------------------|-------------------|-------------|--------------|------------------|
|                      |               |                       |                       | Seed Yield (bu/A)** | Test Weight (lb/bu) | Plant Height (in) | Lodging (%) | Heading Date | Seed Protein (%) |
| <b>OR2190064R</b>    | HRW           |                       | 123                   | 142                 | 63.6                | 36                | 0           | 5/27         | 12.8             |
| <b>Keldin</b>        | HRW           | 138                   | 127                   | 135                 | 63.6                | 41                | 0           | 5/26         | 13.2             |
| <b>LCS Missile</b>   | HRW           |                       |                       | 129                 | 62.0                | 39                | 0           | 5/27         | 13.3             |
| <b>WB4303</b>        | HRW           | 127                   | 121                   | 129                 | 62.4                | 38                | 0           | 5/21         | 13.5             |
| <b>WA8401</b>        | HRW           |                       |                       | 127                 | 60.6                | 38                | 0           | 5/28         | 12.8             |
| <b>WB4510CLP</b>     | HRW           | 129                   | 116                   | 126                 | 65.4                | 39                | 0           | 5/26         | 12.7             |
| <b>OR2190160R</b>    | HRW           |                       |                       | 125                 | 63.7                | 35                | 0           | 5/27         | 14.2             |
| <b>WA8399</b>        | HRW           |                       |                       | 125                 | 60.7                | 38                | 0           | 5/27         | 12.5             |
| <b>Scorpio</b>       | HRW           | 126                   | 116                   | 124                 | 60.3                | 37                | 0           | 5/27         | 13.7             |
| <b>Norwest 553</b>   | HRW           | 119                   | 113                   | 123                 | 62.8                | 34                | 0           | 5/27         | 13.3             |
| <b>LCS Evina</b>     | HRW           |                       |                       | 118                 | 61.9                | 42                | 0           | 5/31         | 14.7             |
| <b>UI Silver</b>     | HWW           |                       | 103                   | 111                 | 63.0                | 41                | 40          | 5/30         | 13.7             |
| <b>Average</b>       |               | <b>128</b>            | <b>117</b>            | <b>126</b>          | <b>62.5</b>         | <b>38</b>         | <b>3</b>    | <b>5/27</b>  | <b>13.4</b>      |
| <b>LSD (0.05)</b>    |               | <b>6</b>              | <b>7</b>              | <b>ns</b>           | <b>1.6</b>          | <b>1</b>          | <b>3</b>    | <b>0.7</b>   | <b>--</b>        |
| <b>CV (%)</b>        |               | <b>5.2</b>            | <b>6.0</b>            | <b>8.9</b>          | <b>1.8</b>          | <b>2.3</b>        | <b>70.7</b> | <b>5.2</b>   | <b>--</b>        |

\*HRW = hard red wheat, HWW = hard white wheat

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

**Table 22. Hard winter wheat variety performance results at Moscow, 2024.**

| Variety or Selection | Market Class* | 3-Year Average (bu/A)** | 2-Year Average (bu/A) | 2023–24 Crop Year    |                     |                   |             |              |                  |
|----------------------|---------------|-------------------------|-----------------------|----------------------|---------------------|-------------------|-------------|--------------|------------------|
|                      |               |                         |                       | Seed Yield (bu/A)*** | Test Weight (lb/bu) | Plant Height (in) | Lodging (%) | Heading Date | Seed Protein (%) |
| <b>WA8401</b>        | HRW           |                         |                       | <b>133</b>           | 57.8                | 39                | 0           | 6/7          | 11.6             |
| <b>WA8399</b>        | HRW           |                         |                       | <b>132</b>           | 58.8                | 39                | 0           | 6/7          | 10.9             |
| <b>Scorpio</b>       | HRW           | 137                     | 129                   | <b>129</b>           | 59.8                | 38                | 0           | 6/5          | 11.4             |
| <b>LCS Missile</b>   | HRW           |                         |                       | <b>129</b>           | 60.7                | 40                | 0           | 6/5          | 12.0             |
| <b>Keldin</b>        | HRW           | 138                     | 134                   | <b>129</b>           | 62.6                | 42                | 0           | 6/4          | 11.5             |
| <b>Norwest 553</b>   | HRW           | 130                     | 123                   | <b>127</b>           | 61.8                | 36                | 0           | 6/5          | 12.1             |
| <b>LCS Evina</b>     | HRW           |                         |                       | <b>124</b>           | 60.2                | 43                | 0           | 6/9          | 13.6             |
| <b>UI Silver</b>     | HWW           | 126                     | 122                   | <b>122</b>           | 61.9                | 43                | 0           | 6/9          | 11.8             |
| <b>OR2190064R</b>    | HRW           |                         | 123                   | <b>121</b>           | 61.1                | 35                | 0           | 6/6          | 11.5             |
| <b>WB4303</b>        | HRW           | 114                     | 126                   | <b>121</b>           | 60.2                | 38                | 0           | 5/30         | 11.6             |
| <b>OR2190160R</b>    | HRW           |                         |                       | 107                  | 61.9                | 35                | 0           | 6/5          | 12.5             |
| <b>Milestone</b>     | HRW           |                         | 118                   | 101                  | 59.4                | 37                | 0           | 6/4          | 11.4             |
| <b>WB4510CLP</b>     | HRW           |                         | 110                   | 93                   | 63.8                | 40                | 0           | 6/4          | 11.6             |
| <b>Average</b>       |               | <b>129</b>              | <b>123</b>            | <b>121</b>           | <b>60.7</b>         | <b>39</b>         | <b>0</b>    | <b>6/5</b>   | <b>11.8</b>      |
| <b>LSD (0.05)</b>    |               | <b>8</b>                | <b>11</b>             | <b>16</b>            | <b>0.9</b>          | <b>2</b>          | <b>--</b>   | <b>1.1</b>   | <b>--</b>        |
| <b>CV (%)</b>        |               | <b>7.3</b>              | <b>8.7</b>            | <b>9.5</b>           | <b>1.0</b>          | <b>3.3</b>        | <b>--</b>   | <b>10.4</b>  | <b>--</b>        |

\*HRW = hard red wheat, HWW = hard white wheat

\*\*3-year averages were calculated using data from the current year along with 2020 and 2023. The Moscow location was not seeded in 2021 or 2022.

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

**Table 23. Hard winter wheat variety performance results at Nezperce, 2024.**

| Variety or Selection | Market Class* | 3-Year Average (bu/A) | 2-Year Average (bu/A) | 2023–24 Crop Year   |                     |                   |              |              |                  |
|----------------------|---------------|-----------------------|-----------------------|---------------------|---------------------|-------------------|--------------|--------------|------------------|
|                      |               |                       |                       | Seed Yield (bu/A)** | Test Weight (lb/bu) | Plant Height (in) | Lodging (%)  | Heading Date | Seed Protein (%) |
| Scorpio              | HRW           | 104                   | 104                   | <b>121</b>          | 59.7                | 37                | 0            | 6/12         | 11.7             |
| Keldin               | HRW           | 109                   | 109                   | <b>121</b>          | 61.9                | 41                | 1            | 6/11         | 11.9             |
| Norwest 553          | HRW           | 96                    | 98                    | <b>115</b>          | 61.2                | 33                | 0            | 6/12         | 12.3             |
| WA8401               | HRW           |                       |                       | <b>114</b>          | 57.8                | 38                | 0            | 6/16         | 11.6             |
| LCS Missile          | HRW           |                       |                       | <b>113</b>          | 59.8                | 38                | 0            | 6/12         | 12.1             |
| WB4510CLP            | HRW           | 99                    | 100                   | 109                 | 64.2                | 41                | 0            | 6/12         | 11.9             |
| OR2190064R           | HRW           |                       | 98                    | 108                 | 60.9                | 35                | 0            | 6/12         | 12.4             |
| OR2190160R           | HRW           |                       |                       | 107                 | 61.2                | 34                | 0            | 6/11         | 12.8             |
| WA8399               | HRW           |                       |                       | 106                 | 58.3                | 37                | 0            | 6/15         | 10.8             |
| LCS Evina            | HRW           |                       |                       | 103                 | 57.4                | 39                | 0            | 6/19         | 14.4             |
| Milestone            | HRW           |                       | 97                    | 102                 | 60.0                | 37                | 0            | 6/10         | 11.7             |
| UI Silver            | HWW           |                       | 92                    | 98                  | 61.5                | 43                | 69           | 6/15         | 11.9             |
| WB4303               | HRW           | 94                    | 99                    | 98                  | 57.9                | 37                | 0            | 6/10         | 12.0             |
| Average              |               | <b>100</b>            | <b>100</b>            | <b>109</b>          | <b>60.2</b>         | <b>37</b>         | <b>5</b>     | <b>6/13</b>  | <b>12.1</b>      |
| LSD (0.05)           |               | <b>9</b>              | <b>8</b>              | <b>11</b>           | <b>0.7</b>          | <b>2</b>          | <b>18</b>    | <b>2.1</b>   | --               |
| CV (%)               |               | <b>10.5</b>           | <b>8.1</b>            | <b>7.1</b>          | <b>0.8</b>          | <b>2.9</b>        | <b>236.4</b> | <b>21.6</b>  | --               |

\*HRW = hard red wheat, HWW = hard white wheat

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

**Table 24. Hard winter wheat variety performance results at Tensed, 2024.**

| Variety or Selection | Market Class* | 3-Year Average (bu/A) | 2-Year Average (bu/A) | 2023–24 Crop Year   |                     |                   |              |              |                  |
|----------------------|---------------|-----------------------|-----------------------|---------------------|---------------------|-------------------|--------------|--------------|------------------|
|                      |               |                       |                       | Seed Yield (bu/A)** | Test Weight (lb/bu) | Plant Height (in) | Lodging (%)  | Heading Date | Seed Protein (%) |
| WA8401               | HRW           |                       |                       | <b>134</b>          | 61.3                | 36                | 0            | 6/12         | 13.2             |
| WA8399               | HRW           |                       |                       | <b>132</b>          | 61.1                | 36                | 0            | 6/12         | 12.3             |
| UI Silver            | HWW           |                       | 115                   | 121                 | 62.1                | 41                | 8            | 6/13         | 14.1             |
| Keldin               | HRW           | 122                   | 118                   | 115                 | 62.2                | 37                | 0            | 6/10         | 13.8             |
| Scorpio              | HRW           | 116                   | 113                   | 114                 | 60.6                | 35                | 0            | 6/12         | 13.5             |
| WB4303               | HRW           | 104                   | 103                   | 108                 | 60.8                | 34                | 0            | 6/8          | 14.9             |
| LCS Evina            | HRW           |                       |                       | 105                 | 60.0                | 36                | 0            | 6/16         | 14.9             |
| LCS Missile          | HRW           |                       |                       | 104                 | 61.1                | 33                | 0            | 6/11         | 13.9             |
| OR2190064R           | HRW           |                       | 105                   | 103                 | 61.3                | 34                | 0            | 6/11         | 14.0             |
| OR2190160R           | HRW           |                       |                       | 101                 | 61.1                | 32                | 0            | 6/10         | 14.2             |
| WB4510CLP            | HRW           | 105                   | 98                    | 98                  | 62.7                | 38                | 0            | 6/10         | 14.5             |
| Norwest 553          | HRW           | 98                    | 94                    | 89                  | 61.5                | 30                | 0            | 6/11         | 14.9             |
| Milestone            | HRW           |                       | 97                    | 85                  | 60.5                | 33                | 0            | 6/10         | 14.4             |
| Average              |               | <b>109</b>            | <b>105</b>            | <b>108</b>          | <b>61.2</b>         | <b>35</b>         | <b>1</b>     | <b>6/11</b>  | <b>14.0</b>      |
| LSD (0.05)           |               | <b>6</b>              | <b>9</b>              | <b>11</b>           | <b>ns</b>           | <b>2</b>          | <b>ns</b>    | <b>1.0</b>   | --               |
| CV (%)               |               | <b>7.0</b>            | <b>8.1</b>            | <b>7.2</b>          | <b>2.0</b>          | <b>3.7</b>        | <b>721.1</b> | <b>13.0</b>  | --               |

\*HRW = hard red wheat, HWW = hard white wheat

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

Table 25. Hard winter wheat performance comparison across northern Idaho, 2024.

| Variety or Selection | 2023–24 Crop Year*** |     |              |                     |                |         |          |        |          |        |             |              |         |              |
|----------------------|----------------------|-----|--------------|---------------------|----------------|---------|----------|--------|----------|--------|-------------|--------------|---------|--------------|
|                      | 3-Year Yield**       |     | 2-Year Yield | North Idaho Average | Bonniers Ferry | Genesee | Lewiston | Moscow | Nezperce | Tensed | Test Weight | Plant Height | Lodging | Seed Protein |
|                      | ----- bu/A -----     |     |              |                     |                |         |          |        |          |        | (lb/bu)     | (inches)     | (%)     | (%)          |
| WA8401               |                      |     | 129          | 138                 | 129            | 127     | 133      | 114    | 134      | 60.6   | 38          | 0            | 11.6    |              |
| WA8399               |                      |     | 128          | 136                 | 133            | 125     | 132      | 106    | 132      | 60.7   | 38          | 0            | 11.2    |              |
| Scorpio              | 115                  | 115 | 126          | 133                 | 133            | 124     | 129      | 121    | 114      | 60.9   | 37          | 0            | 12.0    |              |
| Keldin               | 124                  | 120 | 125          | 124                 | 127            | 135     | 129      | 121    | 115      | 63.3   | 40          | <1           | 12.2    |              |
| LCS Missile          |                      |     | 123          | 131                 | 132            | 129     | 129      | 113    | 104      | 61.6   | 37          | 0            | 12.1    |              |
| OR2190064R           |                      | 112 | 118          | 122                 | 125            | 142     | 121      | 108    | 103      | 62.5   | 35          | 0            | 12.3    |              |
| WB4303               | 112                  | 111 | 118          | 119                 | 131            | 129     | 121      | 98     | 108      | 61.5   | 37          | 0            | 12.6    |              |
| UI Silver*           |                      | 110 | 117          | 129                 | 121            | 111     | 122      | 98     | 121      | 62.8   | 42          | 24           | 12.4    |              |
| Norwest 553          | 104                  | 105 | 116          | 121                 | 120            | 123     | 127      | 115    | 89       | 62.6   | 34          | 0            | 12.8    |              |
| LCS Evina            |                      |     | 115          | 120                 | 117            | 118     | 124      | 103    | 105      | 61.1   | 40          | 0            | 13.6    |              |
| OR2190160R           |                      |     | 113          | 117                 | 127            | 125     | 107      | 107    | 101      | 62.8   | 35          | 0            | 12.9    |              |
| WB4510CLP            | 113                  | 109 | 112          | 127                 | 124            | 126     | 93       | 109    | 98       | 64.8   | 40          | 0            | 12.2    |              |
| Milestone            |                      |     | --           | 107                 | 127            | --      | 101      | 102    | 85       | --     | --          | --           | --      |              |
| Average              | 113                  | 112 | 120          | 125                 | 126            | 126     | 121      | 109    | 108      | 62.1   | 38          | 2            | 12.3    |              |
| LSD (0.05)           | 4                    | 4   | 6            | 11                  | 12             | ns      | 16       | 11     | 11       | 0.4    | 1           | 4            | --      |              |
| CV (%)               | 8.3                  | 8.2 | 8.8          | 6.4                 | 6.7            | 8.9     | 9.5      | 7.1    | 7.2      | 1.2    | 3.5         | 307.2        | --      |              |

\*Hard white

\*\*3-year average does not include Bonniers Ferry or Moscow as these locations were not seeded in 2022.

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

**Table 26. Soft white spring wheat variety performance results at Genesee, 2024.**

| Variety or Selection | 3-Year Average (bu/A) | 2-Year Average (bu/A) | 2024 Crop Year      |                     |                   |             |              |                  |
|----------------------|-----------------------|-----------------------|---------------------|---------------------|-------------------|-------------|--------------|------------------|
|                      |                       |                       | Seed Yield (bu/A)** | Test Weight (lb/bu) | Plant Height (in) | Lodging (%) | Heading Date | Seed Protein (%) |
| <b>WA8408</b>        |                       |                       | <b>76</b>           | 58.4                | 33                | 0           | 6/25         | 13.5             |
| <b>Butch CL+</b>     | 81                    | 73                    | <b>72</b>           | 57.8                | 30                | 0           | 6/23         | 13.6             |
| <b>Roger*</b>        | 81                    | 75                    | <b>71</b>           | 59.0                | 31                | 0           | 6/21         | 12.4             |
| <b>WA8384</b>        |                       |                       | 70                  | 55.9                | 34                | 0           | 6/23         | 14.0             |
| <b>WA8327</b>        | 81                    | 75                    | 68                  | 55.9                | 31                | 0           | 6/25         | 13.6             |
| <b>Seahawk</b>       | 81                    | 72                    | 68                  | 56.1                | 30                | 0           | 6/28         | 14.6             |
| <b>Bush</b>          | 79                    | 71                    | 66                  | 56.0                | 30                | 0           | 6/24         | 13.2             |
| <b>Ryan</b>          | 77                    | 71                    | 66                  | 53.9                | 31                | 0           | 6/22         | 13.1             |
| <b>TMC Lochaven</b>  |                       |                       | 65                  | 54.9                | 31                | 0           | 6/26         | 15.0             |
| <b>UI Cookie</b>     | 75                    | 69                    | 65                  | 53.8                | 31                | 0           | 6/22         | 14.5             |
| <b>Louise</b>        |                       |                       | 64                  | 54.7                | 35                | 0           | 6/26         | 14.0             |
| <b>Tekoa</b>         | 74                    | 66                    | 64                  | 55.9                | 32                | 0           | 6/27         | 13.9             |
| <b>Hedge CL+*</b>    | 76                    | 72                    | 64                  | 58.2                | 32                | 0           | 6/26         | 14.4             |
| <b>Melba*</b>        | 80                    | 70                    | 62                  | 55.7                | 29                | 0           | 6/26         | 14.0             |
| <b>IDO1902S</b>      | 72                    | 66                    | 61                  | 57.2                | 31                | 0           | 6/24         | 14.1             |
| <b>UI Stone</b>      | 71                    | 66                    | 60                  | 54.5                | 31                | 0           | 6/22         | 14.7             |
| <b>WB6211CLP</b>     | 70                    | 63                    | 55                  | 50.7                | 30                | 0           | 6/23         | 15.2             |
| <b>Average</b>       | <b>77</b>             | <b>70</b>             | <b>66</b>           | <b>55.8</b>         | <b>31</b>         | <b>0</b>    | <b>6/24</b>  | <b>14.0</b>      |
| <b>LSD (0.05)</b>    | <b>6</b>              | <b>6</b>              | <b>6</b>            | <b>1.3</b>          | <b>1</b>          | <b>--</b>   | <b>1.0</b>   | <b>--</b>        |
| <b>CV (%)</b>        | <b>9.3</b>            | <b>8.7</b>            | <b>6.3</b>          | <b>1.6</b>          | <b>3.0</b>        | <b>--</b>   | <b>10.8</b>  | <b>--</b>        |

\*Spring club.

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

**Table 27. Soft white spring wheat variety performance results at Greencreek, 2024.**

| Variety or Selection | 3-Year Average (bu/A) | 2-Year Average (bu/A) | 2024 Crop Year      |                     |                   |             |              |                  |
|----------------------|-----------------------|-----------------------|---------------------|---------------------|-------------------|-------------|--------------|------------------|
|                      |                       |                       | Seed Yield (bu/A)** | Test Weight (lb/bu) | Plant Height (in) | Lodging (%) | Heading Date | Seed Protein (%) |
| <b>Bush</b>          | 65                    | 68                    | <b>79</b>           | 62.1                | 33                | 0           | 6/30         | 11.2             |
| <b>Ryan</b>          | 66                    | 70                    | <b>78</b>           | 59.1                | 34                | 0           | 6/25         | 10.9             |
| <b>WA8408</b>        |                       |                       | <b>76</b>           | 62.0                | 34                | 0           | 6/28         | 10.6             |
| <b>Seahawk</b>       | 59                    | 62                    | <b>74</b>           | 60.5                | 33                | 0           | 7/2          | 11.9             |
| <b>WA8327</b>        | 65                    | 67                    | <b>73</b>           | 60.3                | 33                | 0           | 6/29         | 10.8             |
| <b>TMC Lochaven</b>  |                       |                       | 72                  | 61.2                | 33                | 0           | 6/30         | 12.1             |
| <b>Tekoa</b>         | 58                    | 60                    | 69                  | 61.7                | 33                | 0           | 7/3          | 11.5             |
| <b>Roger*</b>        | 58                    | 62                    | 68                  | 62.1                | 32                | 0           | 6/28         | 10.9             |
| <b>Butch CL+</b>     | 62                    | 63                    | 68                  | 60.4                | 31                | 0           | 6/27         | 11.8             |
| <b>WB6211CLP</b>     | 55                    | 59                    | 67                  | 59.4                | 31                | 0           | 6/28         | 12.1             |
| <b>Louise</b>        |                       |                       | 65                  | 59.8                | 35                | 0           | 7/1          | 11.2             |
| <b>UI Stone</b>      | 50                    | 52                    | 54                  | 59.9                | 31                | 0           | 6/28         | 12.6             |
| <b>UI Cookie</b>     | 49                    | 47                    | 47                  | 58.5                | 30                | 0           | 6/30         | 12.8             |
| <b>IDO1902S</b>      | 50                    | 48                    | 45                  | 61.4                | 29                | 0           | 7/4          | 12.1             |
| <b>WA8384</b>        |                       |                       | 41                  | 60.1                | 31                | 0           | 7/3          | 12.7             |
| <b>Hedge CL+*</b>    | 47                    | 44                    | 41                  | 60.8                | 30                | 0           | 7/4          | 13.2             |
| <b>Melba*</b>        | 40                    | 37                    | 32                  | 60.7                | 24                | 0           | 7/6          | 13.5             |
| <b>Average</b>       | <b>56</b>             | <b>57</b>             | <b>62</b>           | <b>60.6</b>         | <b>31</b>         | <b>0</b>    | <b>6/30</b>  | <b>11.9</b>      |
| <b>LSD (0.05)</b>    | <b>4</b>              | <b>5</b>              | <b>7</b>            | <b>0.4</b>          | <b>2</b>          | --          | <b>1.4</b>   | --               |
| <b>CV (%)</b>        | <b>8.8</b>            | <b>8.4</b>            | <b>7.9</b>          | <b>0.4</b>          | <b>4.4</b>        | --          | <b>7.0</b>   | --               |

\*Spring club.

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

**Table 28. Soft white spring wheat performance comparison across northern Idaho, 2024.**

| Variety or Selection | 2024 Crop Year** |              |                     |            |            |             |              |          |
|----------------------|------------------|--------------|---------------------|------------|------------|-------------|--------------|----------|
|                      | 3-Year Yield     | 2-Year Yield | North Idaho Average | Genesee    | Greencreek | Test Weight | Plant Height | Lodging  |
|                      | -----            | -----        | bu/A                | -----      | -----      | (lb/bu)     | (inches)     | (%)      |
| <b>WA8408</b>        |                  |              | <b>76</b>           | <b>76</b>  | <b>76</b>  | 60.2        | 34           | 0        |
| <b>Bush</b>          | 72               | <b>70</b>    | 73                  | 66         | <b>79</b>  | 59.1        | 32           | 0        |
| <b>Ryan</b>          | 72               | <b>71</b>    | 72                  | 66         | <b>78</b>  | 56.5        | 32           | 0        |
| Seahawk              | 70               | 67           | 71                  | 68         | <b>74</b>  | 58.3        | 31           | 0        |
| <b>WA8327</b>        | 73               | <b>71</b>    | 71                  | 68         | <b>73</b>  | 58.1        | 32           | 0        |
| <b>Butch CL+</b>     | 72               | <b>68</b>    | 70                  | <b>72</b>  | 68         | 59.1        | 30           | 0        |
| <b>Roger*</b>        | <b>70</b>        | <b>68</b>    | 70                  | <b>71</b>  | 68         | 60.6        | 31           | 0        |
| <b>TMC Lochaven</b>  |                  |              | 68                  | 65         | 72         | 58.1        | 32           | 0        |
| <b>Tekoa</b>         | 66               | 63           | 67                  | 64         | 69         | 58.8        | 33           | 0        |
| Louise               |                  |              | 64                  | 64         | 65         | 57.2        | 35           | 0        |
| <b>WB6211CLP</b>     | 62               | 61           | 61                  | 55         | 67         | 55.1        | 31           | 0        |
| <b>UI Stone</b>      | 60               | 59           | 57                  | 60         | 54         | 57.2        | 31           | 0        |
| <b>WA8384</b>        |                  |              | 56                  | 70         | 41         | 58.0        | 32           | 0        |
| <b>UI Cookie</b>     | 62               | 58           | 56                  | 65         | 47         | 56.2        | 31           | 0        |
| <b>IDO1902S</b>      | 61               | 57           | 53                  | 61         | 45         | 59.3        | 30           | 0        |
| <b>Hedge CL+*</b>    | 62               | 58           | 52                  | 64         | 41         | 59.5        | 31           | 0        |
| <b>Melba*</b>        | 60               | 54           | 47                  | 62         | 32         | 58.2        | 27           | 0        |
| <b>Average</b>       | <b>66</b>        | <b>63</b>    | <b>64</b>           | <b>66</b>  | <b>62</b>  | <b>58.2</b> | <b>31</b>    | <b>0</b> |
| <b>LSD (0.05)</b>    | <b>4</b>         | <b>4</b>     | <b>5</b>            | <b>6</b>   | <b>7</b>   | <b>0.7</b>  | <b>1</b>     | --       |
| <b>CV (%)</b>        | <b>9.3</b>       | <b>9.0</b>   | <b>7.2</b>          | <b>6.3</b> | <b>7.9</b> | <b>1.2</b>  | <b>3.7</b>   | --       |

\*Club wheat

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

**Table 29. Hard spring wheat variety performance results at Genesee, 2024.**

| Variety or Selection | Market Class* | 3-Year Average (bu/A) | 2-Year Average (bu/A) | 2024 Crop Year      |                     |                   |             |              |                  |
|----------------------|---------------|-----------------------|-----------------------|---------------------|---------------------|-------------------|-------------|--------------|------------------|
|                      |               |                       |                       | Seed Yield (bu/A)** | Test Weight (lb/bu) | Plant Height (in) | Lodging (%) | Heading Date | Seed Protein (%) |
| WB9662               | HRS           | 71                    | 65                    | <b>70</b>           | 57.0                | 29                | 0           | 6/27         | 15.9             |
| WB9303               | HRS           | 71                    | 66                    | <b>68</b>           | 58.5                | 32                | 0           | 6/20         | 16.5             |
| Hale                 | HRS           | 81                    | 73                    | <b>68</b>           | 55.9                | 33                | 0           | 6/23         | 16.5             |
| WB9668               | HRS           | 72                    | 66                    | <b>66</b>           | 57.4                | 29                | 0           | 6/21         | 17.1             |
| WB9636               | HRS           |                       | 68                    | <b>66</b>           | 54.9                | 28                | 0           | 6/26         | 16.1             |
| LCS Hammer AX        | HRS           |                       |                       | 64                  | 56.2                | 30                | 0           | 6/23         | 14.8             |
| IDO2202CL+           | HRS           | 73                    | 68                    | 63                  | 54.8                | 31                | 0           | 6/20         | 16.0             |
| Net CL+              | HRS           | 75                    | 67                    | 62                  | 58.0                | 31                | 0           | 6/29         | 17.2             |
| CP3119A              | HRS           |                       |                       | 61                  | 51.7                | 33                | 0           | 7/3          | 16.3             |
| Dayn                 | HWS           | 75                    | 69                    | 60                  | 55.3                | 32                | 0           | 6/22         | 16.4             |
| Jefferson            | HRS           | 70                    | 65                    | 59                  | 54.1                | 30                | 0           | 6/22         | 16.8             |
| CP3201AX             | HRS           |                       |                       | 59                  | 55.0                | 30                | 0           | 6/27         | 15.9             |
| CP3055               | HRS           |                       |                       | 58                  | 51.1                | 33                | 0           | 7/2          | 16.8             |
| WB9623               | HRS           | 72                    | 64                    | 58                  | 52.2                | 30                | 0           | 6/26         | 17.2             |
| Glee                 | HRS           | 73                    | 65                    | 57                  | 53.4                | 31                | 0           | 6/22         | 16.0             |
| IDO2104HF            | HWS           | 70                    | 66                    | 57                  | 53.7                | 30                | 0           | 6/25         | 15.8             |
| Alum                 | HRS           | 71                    | 63                    | 55                  | 54.4                | 31                | 0           | 6/26         | 16.6             |
| UI Gold              | HWS           | 67                    | 64                    | 55                  | 53.6                | 31                | 0           | 6/26         | 17.1             |
| CP3322               | HRS           |                       |                       | 51                  | 52.9                | 29                | 0           | 7/1          | 17.2             |
| Average              |               | 72                    | 66                    | 61                  | 54.7                | 31                | 0           | 6/25         | 16.4             |
| LSD (0.05)           |               | 5                     | ns                    | 5                   | 1.2                 | 1                 | --          | 1.3          | --               |
| CV (%)               |               | 8.1                   | 9.0                   | 6.3                 | 1.6                 | 3.1               | --          | 12.7         | --               |

\*HRS = hard red spring, HWS = hard white spring

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

**Table 30. Hard spring wheat variety performance results at Greencreek, 2024.**

| Variety or Selection | Market Class* | 3-Year Average (bu/A) | 2-Year Average (bu/A) | 2024 Crop Year      |                     |                   |             |              |                  |
|----------------------|---------------|-----------------------|-----------------------|---------------------|---------------------|-------------------|-------------|--------------|------------------|
|                      |               |                       |                       | Seed Yield (bu/A)** | Test Weight (lb/bu) | Plant Height (in) | Lodging (%) | Heading Date | Seed Protein (%) |
| <b>WB9303</b>        | HRS           | 60                    | 59                    | <b>69</b>           | 60.8                | 32                | 0           | 6/23         | 16.1             |
| <b>Hale</b>          | HRS           | 60                    | 61                    | <b>69</b>           | 61.1                | 34                | 0           | 6/28         | 14.7             |
| <b>Alum</b>          | HRS           | 58                    | 59                    | <b>67</b>           | 59.6                | 32                | 0           | 6/30         | 14.7             |
| <b>CP3119A</b>       | HRS           |                       |                       | <b>66</b>           | 54.3                | 33                | 0           | 7/8          | 15.0             |
| <b>WB9623</b>        | HRS           | 56                    | 58                    | <b>66</b>           | 58.1                | 31                | 0           | 7/1          | 15.2             |
| <b>IDO2202CL+</b>    | HRS           | 53                    | 55                    | <b>65</b>           | 58.3                | 31                | 0           | 6/26         | 15.2             |
| <b>Net CL+</b>       | HRS           | 56                    | 57                    | <b>65</b>           | 60.9                | 31                | 0           | 7/3          | 16.2             |
| <b>IDO2104HF</b>     | HWS           | 55                    | 55                    | <b>64</b>           | 56.7                | 31                | 0           | 6/29         | 14.9             |
| <b>Glee</b>          | HRS           | 56                    | 58                    | <b>64</b>           | 58.9                | 32                | 0           | 6/26         | 15.3             |
| <b>WB9668</b>        | HRS           | 51                    | 51                    | 60                  | 58.6                | 27                | 0           | 6/28         | 16.4             |
| <b>CP3322</b>        | HRS           |                       |                       | 59                  | 57.2                | 29                | 0           | 7/7          | 15.4             |
| <b>CP3201AX</b>      | HRS           |                       |                       | 54                  | 58.3                | 30                | 0           | 7/3          | 15.3             |
| <b>Dayn</b>          | HWS           | 52                    | 50                    | 51                  | 58.9                | 29                | 0           | 7/2          | 14.7             |
| <b>Jefferson</b>     | HRS           | 52                    | 50                    | 50                  | 59.2                | 28                | 0           | 7/2          | 14.5             |
| <b>CP3055</b>        | HRS           |                       |                       | 47                  | 54.9                | 30                | 0           | 7/8          | 15.2             |
| <b>WB9636</b>        | HRS           |                       | 36                    | 41                  | 57.0                | 24                | 0           | 7/3          | 16.1             |
| <b>WB9662</b>        | HRS           | 35                    | 27                    | 40                  | 58.4                | 24                | 0           | 7/3          | 16.8             |
| <b>UI Gold</b>       | HWS           | 42                    | 39                    | 34                  | 58.2                | 27                | 0           | 7/4          | 16.7             |
| <b>Average</b>       |               | <b>53</b>             | <b>51</b>             | <b>57</b>           | <b>58.3</b>         | <b>30</b>         | <b>0</b>    | <b>7/1</b>   | <b>15.5</b>      |
| <b>LSD (0.05)</b>    |               | <b>3</b>              | <b>4</b>              | <b>8</b>            | <b>0.7</b>          | <b>2</b>          | --          | <b>1.2</b>   | --               |
| <b>CV (%)</b>        |               | <b>7.2</b>            | <b>8.6</b>            | <b>9.9</b>          | <b>0.9</b>          | <b>4.5</b>        | --          | <b>5.7</b>   | --               |

\*HRS = hard red spring, HWS = hard white spring

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

**Table 31. Hard spring wheat performance comparison across northern Idaho, 2024.**

| Variety or Selection | Market Class | 2024 Crop Year* |              |                     |            |            |             |              |          |              |
|----------------------|--------------|-----------------|--------------|---------------------|------------|------------|-------------|--------------|----------|--------------|
|                      |              | 3-Year Yield    | 2-Year Yield | North Idaho Average | Genesee    | Greencreek | Test Weight | Plant Height | Lodging  | Seed Protein |
|                      |              |                 |              |                     |            |            |             |              |          |              |
|                      |              |                 |              | bu/A                |            |            | (lb/bu)     | (inches)     | (%)      | (%)          |
| WB9303               | HRS          | 66              | 62           | <b>68</b>           | <b>68</b>  | <b>69</b>  | 59.7        | 32           | 0        | 16.3         |
| Hale                 | HRS          | <b>70</b>       | <b>67</b>    | <b>68</b>           | <b>68</b>  | <b>69</b>  | 58.5        | 33           | 0        | 15.6         |
| WB9668               | HRS          | 62              | 59           | <b>64</b>           | <b>66</b>  | 60         | 58.0        | 28           | 0        | 16.8         |
| IDO2202CL+           | HRS          | 64              | 62           | <b>64</b>           | 63         | <b>65</b>  | 56.5        | 31           | 0        | 15.6         |
| CP3119A              | HRS          |                 |              | <b>64</b>           | 61         | <b>66</b>  | 53.0        | 33           | 0        | 15.6         |
| Net CL+              | HRS          | 66              | 62           | 63                  | 62         | <b>65</b>  | 59.4        | 31           | 0        | 16.7         |
| WB9623               | HRS          | 64              | 61           | 62                  | 58         | <b>66</b>  | 55.1        | 30           | 0        | 16.2         |
| Alum                 | HRS          | 64              | 61           | 61                  | 55         | <b>67</b>  | 57.0        | 32           | 0        | 15.7         |
| IDO2104HF            | HWS          | 63              | 60           | 61                  | 57         | <b>64</b>  | 55.2        | 30           | 0        | 15.3         |
| Glee                 | HRS          | 64              | 61           | 60                  | 57         | <b>64</b>  | 56.1        | 32           | 0        | 15.6         |
| CP3201AX             | HRS          |                 |              | 56                  | 59         | 54         | 56.6        | 30           | 0        | 15.6         |
| Dayn                 | HWS          | 63              | 59           | 55                  | 60         | 51         | 57.1        | 31           | 0        | 15.6         |
| WB9662               | HRS          | 53              | 46           | 55                  | <b>70</b>  | 40         | 57.7        | 26           | 0        | 16.4         |
| CP3322               | HRS          |                 |              | 55                  | 51         | 59         | 55.1        | 29           | 0        | 16.3         |
| Jefferson            | HRS          | 61              | 57           | 55                  | 59         | 50         | 56.6        | 29           | 0        | 15.6         |
| WB9636               | HRS          |                 | 52           | 54                  | <b>66</b>  | 41         | 55.9        | 26           | 0        | 16.1         |
| CP3055               | HRS          |                 |              | 53                  | 58         | 47         | 53.0        | 32           | 0        | 16.0         |
| UI Gold              | HWS          | 54              | 52           | 44                  | 55         | 34         | 55.9        | 29           | 0        | 16.9         |
| LCS Hammer AX        | HRS          |                 |              | --                  | 64         | --         | --          | --           | --       | --           |
| Average              |              | <b>63</b>       | <b>59</b>    | <b>59</b>           | <b>61</b>  | <b>57</b>  | <b>56.5</b> | <b>30</b>    | <b>0</b> | <b>16.0</b>  |
| LSD (0.05)           |              | <b>3</b>        | <b>4</b>     | <b>5</b>            | <b>5</b>   | <b>8</b>   | <b>0.7</b>  | <b>1</b>     | --       | --           |
| CV (%)               |              | <b>8.1</b>      | <b>9.5</b>   | <b>8.2</b>          | <b>6.3</b> | <b>9.9</b> | <b>1.3</b>  | <b>4.0</b>   | --       | --           |

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

**Table 32. Winter barley variety performance results at Genesee, 2024.**

| Variety or Selection | Class         | 2023–24 Crop Year     |                        |                      |            |             |              |                |                 |                |
|----------------------|---------------|-----------------------|------------------------|----------------------|------------|-------------|--------------|----------------|-----------------|----------------|
|                      |               | Seed Yield<br>(bu/A)* | Test Weight<br>(lb/bu) | Plant Height<br>(in) | Plumps (%) |             | Thins<br>(%) | Lodging<br>(%) | Heading<br>Date | Protein<br>(%) |
|                      |               |                       |                        |                      | (>6/64")   | (>5.5/64")  |              |                |                 |                |
| <b>11ARS652-7</b>    | Malt          | <b>198</b>            | 55.3                   | 41                   | 87         | 11          | 2            | 0              | 5/25            | 9.1            |
| <b>Flavia</b>        | Malt          | <b>197</b>            | 54.6                   | 38                   | 97         | 2           | 0            | 1              | 5/20            | 9.2            |
| <b>DH171854</b>      | Malt          | <b>196</b>            | 54.7                   | 42                   | 90         | 9           | 1            | 0              | 5/23            | 9.7            |
| <b>Hirondella</b>    | Malt          | <b>196</b>            | 51.0                   | 42                   | 91         | 8           | 2            | 5              | 5/25            | 9.7            |
| <b>13ARS526-8</b>    | Malt          | <b>193</b>            | 54.4                   | 37                   | 89         | 9           | 2            | 1              | 5/24            | 9.0            |
| <b>16ARS627-037</b>  | Malt          | <b>188</b>            | 55.4                   | 36                   | 80         | 17          | 3            | 5              | 5/20            | 9.7            |
| <b>DH190077</b>      | Malt          | <b>188</b>            | 55.0                   | 39                   | 98         | 2           | 0            | 0              | 5/20            | 9.6            |
| <b>Wintmalt</b>      | Malt          | <b>187</b>            | 53.5                   | 41                   | 92         | 7           | 1            | 0              | 5/26            | 9.3            |
| <b>Marouetta</b>     | Malt          | <b>186</b>            | 53.7                   | 44                   | 97         | 3           | 0            | 0              | 5/19            | 9.2            |
| <b>Thunder</b>       | Malt          | 185                   | 55.1                   | 38                   | 96         | 3           | 1            | 1              | 5/21            | 9.0            |
| <b>DH141947</b>      | Malt          | 182                   | 53.6                   | 37                   | 97         | 2           | 1            | 0              | 5/21            | 9.5            |
| <b>Charles</b>       | Malt          | 180                   | 52.1                   | 35                   | 91         | 7           | 2            | 3              | 5/19            | 9.4            |
| <b>DH162310</b>      | Malt          | 176                   | 55.8                   | 41                   | 97         | 2           | 0            | 3              | 5/17            | 10.4           |
| <b>13ARS537-19</b>   | Malt          | 176                   | 56.6                   | 36                   | 95         | 4           | 1            | 0              | 5/16            | 9.2            |
| <b>DH170472</b>      | Malt          | 175                   | 53.5                   | 47                   | 95         | 4           | 1            | 0              | 5/26            | 9.8            |
| <b>Endeavor</b>      | Malt          | 167                   | 53.7                   | 39                   | 71         | 23          | 6            | 23             | 5/24            | 9.0            |
| <b>Avalon</b>        | Malt          | 151                   | 55.8                   | 44                   | 97         | 3           | 0            | <1             | 5/22            | 10.5           |
| <b>12ARS777-2</b>    | Food, hulless | 139                   | 62.7                   | 41                   | 82         | 15          | 3            | 0              | 5/27            | 10.8           |
| <b>12ARS777-1</b>    | Food, hulless | 136                   | 62.6                   | 43                   | 75         | 21          | 3            | 0              | 5/29            | 10.6           |
| <b>Upspring</b>      | Food, hulless | 122                   | 64.3                   | 40                   | 75         | 22          | 3            | 0              | 5/31            | 10.5           |
| <b>Average</b>       |               | <b>176</b>            | <b>55.7</b>            | <b>40</b>            | <b>90</b>  | <b>9</b>    | <b>2</b>     | <b>2</b>       | <b>5/23</b>     | <b>9.7</b>     |
| <b>LSD (0.05)</b>    |               | <b>13</b>             | <b>0.7</b>             | <b>2</b>             | <b>6</b>   | <b>5</b>    | <b>2</b>     | <b>ns</b>      | <b>1.9</b>      | <b>--</b>      |
| <b>CV (%)</b>        |               | <b>5.3</b>            | <b>0.9</b>             | <b>3.4</b>           | <b>5.1</b> | <b>39.8</b> | <b>82.4</b>  | <b>488.9</b>   | <b>17.8</b>     | <b>--</b>      |

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

**Table 33. Spring barley (feed and food) variety performance results at Bonners Ferry, 2024.**

| Variety or Selection | 3-Year Average (bu/A) | 2-Year Average (bu/A) | 2024 Crop Year      |                     |                   |            |            |           |             |             |
|----------------------|-----------------------|-----------------------|---------------------|---------------------|-------------------|------------|------------|-----------|-------------|-------------|
|                      |                       |                       | Seed Yield (bu/A)** | Test Weight (lb/bu) | Plant Height (in) | Plumps (%) |            | Thins (%) | Lodging (%) | Protein (%) |
|                      |                       |                       |                     |                     |                   | (>6/64")   | (>5.5/64") |           |             |             |
| Feed                 |                       |                       |                     |                     |                   |            |            |           |             |             |
| Lenetah              | 114                   | 108                   | 107                 | 50.5                | 28                | 93         | 5          | 1         | 0           | 10.6        |
| Claymore             | 123                   | 116                   | 101                 | 50.6                | 29                | 96         | 3          | 1         | 0           | 10.3        |
| Altorado             | 115                   | 106                   | 97                  | 50.9                | 27                | 92         | 7          | 1         | 0           | 10.9        |
| Carleton             | 109                   | 117                   | 95                  | 50.6                | 26                | 93         | 6          | 1         | 0           | 10.4        |
| Survivor             |                       | 100                   | 90                  | 51.7                | 28                | 97         | 2          | 0         | 0           | 10.8        |
| YU518-415            |                       |                       | 88                  | 51.2                | 27                | 95         | 5          | 1         | 0           | 11.1        |
| HO516-429            |                       |                       | 79                  | 51.7                | 30                | 97         | 2          | 0         | 1           | 10.9        |
| Successor            |                       | 97                    | 76                  | 52.1                | 25                | 97         | 2          | 1         | 0           | 10.8        |
| Food                 |                       |                       |                     |                     |                   |            |            |           |             |             |
| Kardia               | 101                   | 92                    | 97                  | 49.8                | 29                | 95         | 4          | 1         | 0           | 11.7        |
| Salute               | 109                   | 102                   | 90                  | 51.4                | 28                | 97         | 3          | 1         | 0           | 10.4        |
| 18ARS205-2*          |                       |                       | 76                  | 58.6                | 30                | 87         | 10         | 3         | 8           | 11.5        |
| 16ARS295-1*          |                       | 77                    | 71                  | 57.0                | 24                | 73         | 21         | 6         | 1           | 11.8        |
| Julie*               | 54                    | 57                    | 64                  | 59.6                | 29                | 73         | 23         | 4         | 0           | 11.4        |
| Goldenhart*          | 96                    | 69                    | 62                  | 59.1                | 28                | 90         | 8          | 2         | 0           | 13.2        |
| Transit*             | 62                    | 55                    | 48                  | 55.6                | 31                | 59         | 34         | 7         | 1           | 13.2        |
| Average              | 96                    | 92                    | 83                  | 53.3                | 28                | 89         | 9          | 2         | 1           | 11.3        |
| LSD (0.05)           | 8                     | 9                     | 11                  | 1.1                 | 2                 | 5          | 4          | 2         | 2           | --          |
| CV (%)               | 9.7                   | 9.8                   | 9.0                 | 1.4                 | 4.1               | 4.2        | 28.7       | 66.9      | 180.1       | --          |

\*Entries are hulless.

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

**Table 34. Spring barley (feed and food) variety performance results at Genesee, 2024.**

| Variety or Selection | 3-Year Average (bu/A) | 2-Year Average (bu/A) | 2024 Crop Year      |                     |                   |            |            |           |             |             |
|----------------------|-----------------------|-----------------------|---------------------|---------------------|-------------------|------------|------------|-----------|-------------|-------------|
|                      |                       |                       | Seed Yield (bu/A)** | Test Weight (lb/bu) | Plant Height (in) | Plumps (%) |            | Thins (%) | Lodging (%) | Protein (%) |
|                      |                       |                       |                     |                     |                   | (>6/64")   | (>5.5/64") |           |             |             |
| Feed                 |                       |                       |                     |                     |                   |            |            |           |             |             |
| Carleton             |                       | 83                    | 74                  | 47.6                | 28                | 24         | 49         | 27        | 0           | 11.4        |
| Successor            |                       | 75                    | 71                  | 51.4                | 27                | 56         | 35         | 9         | 0           | 11.3        |
| Lenetah              | 84                    | 79                    | 69                  | 49.7                | 28                | 46         | 40         | 14        | 0           | 10.9        |
| Claymore             | 81                    | 73                    | 68                  | 47.7                | 31                | 37         | 44         | 19        | 0           | 11.6        |
| YU518-415            |                       |                       | 67                  | 49.5                | 30                | 15         | 53         | 32        | 0           | 11.3        |
| Altorado             | 82                    | 76                    | 63                  | 48.7                | 28                | 8          | 47         | 44        | 0           | 11.3        |
| Survivor             | 73                    | 71                    | 62                  | 50.2                | 30                | 49         | 40         | 12        | 0           | 12.0        |
| HO516-429            |                       |                       | 60                  | 49.9                | 31                | 36         | 40         | 24        | 0           | 11.9        |
| Food                 |                       |                       |                     |                     |                   |            |            |           |             |             |
| Salute               | 76                    | 72                    | 62                  | 49.2                | 29                | 45         | 39         | 16        | 0           | 12.6        |
| Kardia               | 66                    | 63                    | 54                  | 47.0                | 29                | 28         | 40         | 32        | 0           | 13.1        |
| 16ARS295-1*          |                       | 63                    | 53                  | 56.6                | 28                | 25         | 44         | 30        | 0           | 12.4        |
| 18ARS205-2*          |                       |                       | 49                  | 55.0                | 30                | 6          | 24         | 70        | 0           | 13.2        |
| Goldenhart*          | 53                    | 53                    | 47                  | 56.1                | 29                | 19         | 32         | 49        | 0           | 12.8        |
| Julie*               | 47                    | 51                    | 40                  | 56.0                | 26                | 4          | 24         | 72        | 0           | 13.0        |
| Transit*             | 49                    | 45                    | 33                  | 52.6                | 30                | 12         | 26         | 62        | 0           | 12.8        |
| Average              | 68                    | 67                    | 58                  | 51.1                | 29                | 28         | 39         | 34        | 0           | 12.1        |
| LSD (0.05)           | 6                     | 8                     | 9                   | 1.1                 | 2                 | 8          | 7          | 9         | --          | --          |
| CV (%)               | 10.1                  | 11.6                  | 10.0                | 1.4                 | 5.1               | 19.9       | 12.7       | 17.6      | --          | --          |

\*Entries are hullless.

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

**Table 35. Spring barley (feed and food) variety performance results at Greencreek, 2024.**

| Variety or Selection | 2024 Crop Year |                |            |             |              |            |             |             |              |             |             |
|----------------------|----------------|----------------|------------|-------------|--------------|------------|-------------|-------------|--------------|-------------|-------------|
|                      | 3-Year Average | 2-Year Average | Seed Yield | Test Weight | Plant Height | Plumps (%) |             | Thins       | Lodging      | Heading     | Protein     |
|                      | (bu/A)         | (bu/A)         | (bu/A)**   | (lb/bu)     | (in)         | (>6/64")   | (>5.5/64")  | (%)         | (%)          | Date        | (%)         |
| <b>Feed</b>          |                |                |            |             |              |            |             |             |              |             |             |
| <b>Carleton</b>      |                | 83             | <b>133</b> | 50.7        | 36           | 72         | 22          | 5           | 25           | 6/27        | 9.3         |
| <b>Claymore</b>      | 81             | 73             | <b>128</b> | 50.1        | 39           | 75         | 20          | 5           | 0            | 6/28        | 9.9         |
| <b>Lenetah</b>       | 84             | 79             | <b>127</b> | 52.4        | 39           | 88         | 10          | 2           | 55           | 6/27        | 9.3         |
| <b>Successor</b>     |                | 75             | 123        | 53.3        | 34           | 94         | 5           | 1           | 43           | 6/17        | 9.5         |
| <b>YU518-415</b>     |                |                | 120        | 52.3        | 38           | 75         | 22          | 3           | 14           | 6/26        | 10.1        |
| <b>HO516-429</b>     |                |                | 120        | 53.6        | 41           | 91         | 7           | 2           | 3            | 6/25        | 10.3        |
| <b>Altorado</b>      | 82             | 76             | 118        | 52.0        | 36           | 62         | 33          | 5           | 6            | 6/26        | 10.0        |
| <b>Survivor</b>      | 73             | 71             | 116        | 52.4        | 37           | 87         | 10          | 2           | 16           | 6/27        | 10.0        |
| <b>Food</b>          |                |                |            |             |              |            |             |             |              |             |             |
| <b>Kardia</b>        | 66             | 63             | 111        | 48.0        | 38           | 67         | 26          | 7           | 3            | 7/3         | 10.6        |
| <b>Salute</b>        | 76             | 72             | 106        | 51.2        | 38           | 87         | 12          | 1           | 15           | 6/28        | 10.7        |
| <b>18ARS205-2*</b>   |                |                | 95         | 56.5        | 38           | 30         | 47          | 24          | 58           | 7/1         | 10.6        |
| <b>16ARS295-1*</b>   |                | 63             | 91         | 58.8        | 36           | 62         | 31          | 7           | 5            | 6/29        | 11.3        |
| <b>Julie*</b>        | 47             | 51             | 87         | 59.2        | 35           | 25         | 51          | 24          | 8            | 7/3         | 11.0        |
| <b>Goldenhart*</b>   | 53             | 53             | 81         | 58.6        | 38           | 43         | 47          | 9           | 68           | 7/1         | 11.6        |
| <b>Transit*</b>      | 49             | 45             | 69         | 55.0        | 39           | 37         | 41          | 22          | 0            | 7/4         | 11.8        |
| <b>Average</b>       | <b>68</b>      | <b>67</b>      | <b>109</b> | <b>53.6</b> | <b>37</b>    | <b>66</b>  | <b>26</b>   | <b>8</b>    | <b>21</b>    | <b>6/28</b> | <b>10.4</b> |
| <b>LSD (0.05)</b>    | <b>6</b>       | <b>8</b>       | <b>10</b>  | <b>0.8</b>  | <b>2</b>     | <b>7</b>   | <b>5</b>    | <b>3</b>    | <b>32</b>    | <b>2.4</b>  | <b>--</b>   |
| <b>CV (%)</b>        | <b>10.1</b>    | <b>11.6</b>    | <b>6.0</b> | <b>1.0</b>  | <b>4.0</b>   | <b>7.0</b> | <b>12.8</b> | <b>24.2</b> | <b>105.9</b> | <b>13.9</b> | <b>--</b>   |

\*Entries are hullless.

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

**Table 36. Spring barley (feed and food) performance comparison across northern Idaho, 2024.**

| Variety or Selection | 2024 Crop Year** |                |                     |                  |         |            |             |               |                |                  |       |         |         |
|----------------------|------------------|----------------|---------------------|------------------|---------|------------|-------------|---------------|----------------|------------------|-------|---------|---------|
|                      | 3-Year Average   | 2-Year Average | North Idaho Average | Bonnors Ferry    | Genesee | Greencreek | Test Weight | Plant Height  | Plumps (>6/64) | Plumps (>5.5/64) | Thins | Lodging | Protein |
|                      | ----- bu/A ----- |                |                     | (lb/bu) (inches) |         |            |             | ----- % ----- |                |                  |       |         |         |
| Feed                 |                  |                |                     |                  |         |            |             |               |                |                  |       |         |         |
| Carleton             |                  | 101            | 103                 | 95               | 74      | 133        | 49.8        | 30            | 67             | 23               | 10    | 8       | 10.4    |
| Lenetah              | 95               | 95             | 101                 | 107              | 69      | 127        | 50.9        | 31            | 76             | 18               | 6     | 18      | 10.3    |
| Claymore             | 99               | 97             | 99                  | 101              | 68      | 128        | 49.5        | 33            | 69             | 22               | 8     | 0       | 10.6    |
| Altorado             | 95               | 91             | 93                  | 97               | 63      | 118        | 50.6        | 30            | 54             | 29               | 17    | 2       | 10.7    |
| YU518-415            |                  |                | 92                  | 88               | 67      | 120        | 51.0        | 32            | 62             | 27               | 12    | 5       | 10.8    |
| Successor            |                  | 90             | 90                  | 76               | 71      | 123        | 52.2        | 29            | 82             | 14               | 3     | 14      | 10.6    |
| Survivor             | 89               | 88             | 89                  | 90               | 62      | 116        | 51.4        | 32            | 78             | 17               | 5     | 5       | 10.9    |
| HO516-429            |                  |                | 86                  | 79               | 60      | 120        | 51.7        | 34            | 75             | 17               | 9     | 1       | 11.0    |
| Food                 |                  |                |                     |                  |         |            |             |               |                |                  |       |         |         |
| Kardia               | 81               | 80             | 87                  | 97               | 54      | 111        | 48.3        | 32            | 63             | 23               | 13    | 1       | 11.8    |
| Salute               | 88               | 86             | 84                  | 90               | 62      | 106        | 50.5        | 32            | 75             | 18               | 6     | 5       | 11.2    |
| 18ARS205-2*          |                  |                | 73                  | 76               | 49      | 95         | 56.7        | 32            | 41             | 27               | 32    | 22      | 11.8    |
| 16ARS295-1*          |                  | 70             | 69                  | 71               | 53      | 91         | 57.3        | 29            | 53             | 32               | 15    | 2       | 11.8    |
| Julie*               | 50               | 57             | 66                  | 64               | 40      | 87         | 58.5        | 30            | 37             | 34               | 30    | 3       | 11.8    |
| Goldenhart*          | 61               | 61             | 63                  | 62               | 47      | 81         | 57.9        | 32            | 51             | 29               | 20    | 23      | 12.5    |
| Transit*             | 55               | 52             | 50                  | 48               | 33      | 69         | 54.4        | 33            | 36             | 34               | 30    | <1      | 12.6    |
| Average              | 79               | 81             | 83                  | 83               | 58      | 109        | 52.7        | 31            | 61             | 24               | 14    | 7       | 11.3    |
| LSD (0.05)           | 5                | 6              | 8                   | 11               | 9       | 10         | 0.6         | 1             | 4              | 3                | 3     | 11      | --      |
| CV (%)               | 12.4             | 13.2           | 11.1                | 9.0              | 10.0    | 6.0        | 1.4         | 5.4           | 8.0            | 15.7             | 28.0  | 179.1   | --      |

\*Entries are hullless.

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

Table 37. Spring barley (malt) variety performance results at Bonners Ferry, 2024.

| Variety or Selection | 3-Year Average (bu/A) | 2-Year Average (bu/A) | 2024 Crop Year     |                     |                   |            |             |              |              |             |
|----------------------|-----------------------|-----------------------|--------------------|---------------------|-------------------|------------|-------------|--------------|--------------|-------------|
|                      |                       |                       | Seed Yield (bu/A)* | Test Weight (lb/bu) | Plant Height (in) | Plumps (%) |             | Thins (%)    | Lodging (%)  | Protein (%) |
|                      |                       |                       |                    |                     |                   | (>6/64")   | (>5.5/64")  |              |              |             |
| BC Elinor            |                       |                       | <b>98</b>          | 48.7                | 26                | 98         | 1           | <1           | 0            | 10.0        |
| 17ARS072-5           |                       | 108                   | <b>96</b>          | 50.1                | 26                | 97         | 3           | 1            | 0            | 10.2        |
| 16ARS067-13          |                       | 113                   | <b>95</b>          | 50.3                | 27                | 98         | 2           | <1           | 0            | 10.2        |
| AAC Connect          | 108                   | 107                   | <b>94</b>          | 50.8                | 31                | 96         | 3           | <1           | 1            | 10.2        |
| LGBU17-1320A         |                       |                       | <b>93</b>          | 48.0                | 25                | 98         | 1           | <1           | 0            | 9.8         |
| GemCraft             | 119                   | 111                   | <b>93</b>          | 51.1                | 27                | 95         | 5           | 1            | 0            | 10.5        |
| LCS Odyssey          |                       |                       | <b>92</b>          | 50.5                | 26                | 98         | 2           | <1           | 0            | 10.0        |
| CDC-Copeland         | 103                   | 104                   | <b>92</b>          | 51.0                | 27                | 97         | 2           | 1            | 0            | 10.7        |
| LG Diablo            |                       |                       | <b>90</b>          | 48.9                | 25                | 99         | 1           | <1           | 0            | 10.7        |
| 20WAM-721.1          |                       | 109                   | <b>88</b>          | 50.6                | 27                | 97         | 3           | 1            | 0            | 11.2        |
| LG Caruso            |                       |                       | 86                 | 48.9                | 25                | 98         | 1           | <1           | 0            | 9.7         |
| 20WAM-248.1          |                       | 101                   | 85                 | 52.3                | 27                | 94         | 5           | 1            | 0            | 10.9        |
| 20WAM-487.1          |                       | 105                   | 83                 | 52.0                | 27                | 94         | 5           | 1            | 0            | 10.9        |
| DH131756             |                       |                       | 83                 | 50.6                | 26                | 98         | 2           | 1            | 0            | 11.1        |
| 17ARS069-1           |                       | 99                    | 79                 | 51.0                | 26                | 92         | 7           | 1            | 0            | 11.2        |
| 20WAM-783.1          |                       | 101                   | 76                 | 51.0                | 29                | 98         | 2           | <1           | 3            | 11.0        |
| Average              | <b>110</b>            | <b>106</b>            | <b>89</b>          | <b>50.4</b>         | <b>27</b>         | <b>97</b>  | <b>3</b>    | <b>&lt;1</b> | <b>&lt;1</b> | <b>10.5</b> |
| LSD (0.05)           | <b>9</b>              | <b>11</b>             | <b>11</b>          | <b>0.8</b>          | <b>2</b>          | <b>1</b>   | <b>1</b>    | <b>&lt;1</b> | <b>1</b>     | --          |
| CV (%)               | <b>9.9</b>            | <b>10.1</b>           | <b>8.7</b>         | <b>1.1</b>          | <b>4.6</b>        | <b>0.7</b> | <b>17.2</b> | <b>35.0</b>  | <b>361.1</b> | --          |

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

Table 38. Spring barley (malt) variety performance results at Genesee, 2024.

| Variety or Selection | 3-Year Average (bu/A) | 2-Year Average (bu/A) | 2024 Crop Year     |                     |                   |             |            |             |             |             |
|----------------------|-----------------------|-----------------------|--------------------|---------------------|-------------------|-------------|------------|-------------|-------------|-------------|
|                      |                       |                       | Seed Yield (bu/A)* | Test Weight (lb/bu) | Plant Height (in) | Plumps (%)  |            | Thins (%)   | Lodging (%) | Protein (%) |
|                      |                       |                       |                    |                     |                   | (>6/64")    | (>5.5/64") |             |             |             |
| 17ARS069-1           |                       | 76                    | <b>66</b>          | 49.1                | 30                | 20          | 46         | 35          | 0           | 12.2        |
| GemCraft             | 76                    | 71                    | <b>63</b>          | 44.9                | 28                | 15          | 46         | 38          | 0           | 11.6        |
| BC Elinor            |                       |                       | <b>63</b>          | 45.0                | 27                | 41          | 38         | 20          | 0           | 11.1        |
| 20WAM-248.1          |                       | 70                    | <b>62</b>          | 48.7                | 30                | 43          | 39         | 18          | 0           | 12.0        |
| LGBU17-1320A         |                       |                       | <b>61</b>          | 43.7                | 26                | 41          | 38         | 20          | 0           | 10.9        |
| CDC-Copeland         | 74                    | 71                    | <b>61</b>          | 46.3                | 28                | 36          | 43         | 21          | 0           | 12.9        |
| 20WAM-783.1          |                       | 70                    | <b>61</b>          | 46.9                | 31                | 35          | 41         | 23          | 0           | 11.8        |
| 17ARS072-5           |                       | 70                    | <b>61</b>          | 45.4                | 27                | 20          | 45         | 34          | 0           | 11.7        |
| LCS Odyssey          |                       |                       | 60                 | 45.4                | 26                | 45          | 37         | 18          | 0           | 11.0        |
| LG Diablo            |                       |                       | 59                 | 45.2                | 26                | 54          | 32         | 14          | 0           | 11.6        |
| 16ARS067-13          |                       | 73                    | 58                 | 45.0                | 26                | 16          | 34         | 50          | 0           | 12.2        |
| AAC Connect          | 70                    | 64                    | 58                 | 47.3                | 30                | 31          | 41         | 28          | 0           | 12.2        |
| 20WAM-487.1          |                       | 67                    | 54                 | 48.9                | 29                | 38          | 42         | 20          | 0           | 11.9        |
| 20WAM-721.1          |                       | 65                    | 52                 | 45.2                | 28                | 29          | 44         | 27          | 0           | 13.5        |
| Average              | <b>73</b>             | <b>70</b>             | <b>60</b>          | <b>46.2</b>         | <b>28</b>         | <b>33</b>   | <b>40</b>  | <b>26</b>   | <b>0</b>    | <b>11.9</b> |
| LSD (0.05)           | <b>ns</b>             | <b>6</b>              | <b>6</b>           | <b>1.4</b>          | <b>2</b>          | <b>12</b>   | <b>5</b>   | <b>11</b>   | --          | --          |
| CV (%)               | <b>9.0</b>            | <b>8.8</b>            | <b>6.7</b>         | <b>2.1</b>          | <b>5.0</b>        | <b>25.4</b> | <b>9.1</b> | <b>30.7</b> | --          | --          |

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

**Table 39. Spring barley (malt) variety performance results at Greencreek, 2024.**

| Variety or Selection | 2024 Crop Year |                |            |             |              |            |             |             |              |             |            |
|----------------------|----------------|----------------|------------|-------------|--------------|------------|-------------|-------------|--------------|-------------|------------|
|                      | 3-Year Average | 2-Year Average | Seed Yield | Test Weight | Plant Height | Plumps (%) |             | Thins       | Lodging      | Heading     | Protein    |
|                      | (bu/A)         | (bu/A)         | (bu/A)*    | (lb/bu)     | (in)         | (>6/64")   | (>5.5/64")  | (%)         | (%)          | Date        | (%)        |
| <b>GemCraft</b>      | 76             | 71             | 118        | 48.7        | 36           | 68         | 26          | 6           | 0            | 7/1         | 10.0       |
| <b>BC Elinor</b>     |                |                | 116        | 48.2        | 31           | 86         | 12          | 2           | 0            | 7/4         | 9.1        |
| <b>CDC-Copeland</b>  | 74             | 71             | 116        | 49.9        | 37           | 88         | 10          | 2           | 23           | 6/27        | 10.2       |
| <b>17ARS072-5</b>    |                | 70             | 115        | 49.9        | 33           | 73         | 22          | 5           | 0            | 7/5         | 9.0        |
| <b>16ARS067-13</b>   |                | 73             | 114        | 49.6        | 29           | 80         | 15          | 5           | 0            | 7/11        | 10.0       |
| <b>20WAM-783.1</b>   |                | 70             | 110        | 51.7        | 39           | 91         | 7           | 1           | 15           | 6/30        | 9.6        |
| <b>20WAM-248.1</b>   |                | 70             | 109        | 51.7        | 36           | 89         | 10          | 1           | 35           | 6/26        | 10.3       |
| <b>AAC Connect</b>   | 70             | 64             | 109        | 50.6        | 36           | 89         | 9           | 2           | 4            | 6/28        | 9.4        |
| <b>20WAM-721.1</b>   |                | 65             | 109        | 49.8        | 34           | 90         | 9           | 2           | 0            | 6/30        | 10.1       |
| <b>LG Diablo</b>     |                |                | 108        | 46.8        | 30           | 89         | 9           | 2           | 0            | 7/8         | 9.8        |
| <b>17ARS069-1</b>    |                | 76             | 107        | 51.7        | 37           | 73         | 24          | 3           | 0            | 6/25        | 10.1       |
| <b>20WAM-487.1</b>   |                | 67             | 103        | 52.4        | 37           | 93         | 6           | 1           | 3            | 6/26        | 10.4       |
| <b>Average</b>       | <b>73</b>      | <b>70</b>      | <b>111</b> | <b>50.1</b> | <b>34</b>    | <b>84</b>  | <b>13</b>   | <b>3</b>    | <b>7</b>     | <b>6/30</b> | <b>9.8</b> |
| <b>LSD (0.05)</b>    | <b>ns</b>      | <b>6</b>       | <b>ns</b>  | <b>0.7</b>  | <b>2</b>     | <b>5</b>   | <b>4</b>    | <b>1</b>    | <b>22</b>    | <b>2.9</b>  | <b>--</b>  |
| <b>CV (%)</b>        | <b>9.0</b>     | <b>8.8</b>     | <b>5.9</b> | <b>1.0</b>  | <b>4.6</b>   | <b>4.1</b> | <b>19.5</b> | <b>38.1</b> | <b>236.1</b> | <b>14.5</b> | <b>--</b>  |

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

**Table 40. Spring barley (malt) performance comparison across northern Idaho, 2024.**

| Variety or Selection | 2024 Crop Year** |                |                     |                |         |            |             |              |                |                  |       |         |         |
|----------------------|------------------|----------------|---------------------|----------------|---------|------------|-------------|--------------|----------------|------------------|-------|---------|---------|
|                      | 3-Year Average   | 2-Year Average | North Idaho Average | Bonniers Ferry | Genesee | Greencreek | Test Weight | Plant Height | Plumps (>6/64) | Plumps (>5.5/64) | Thins | Lodging | Protein |
|                      | ----- bu/A ----- |                |                     |                |         |            | (lb/bu)     | (inches)     | ----- % -----  |                  |       |         |         |
| BC Elinor            |                  |                | 92                  | 98             | 63      | 116        | 47.3        | 28           | 75             | 17               | 8     | 0       | 10.1    |
| GemCraft             | 94               | 92             | 91                  | 93             | 63      | 118        | 48.2        | 31           | 59             | 26               | 15    | 0       | 10.7    |
| 17ARS072-5           |                  | 90             | 91                  | 96             | 61      | 115        | 48.5        | 29           | 63             | 23               | 13    | 0       | 10.3    |
| CDC-Copeland         | 86               | 89             | 90                  | 92             | 61      | 116        | 49.1        | 31           | 74             | 18               | 8     | 8       | 11.3    |
| 16ARS067-13          |                  | 93             | 89                  | 95             | 58      | 114        | 48.3        | 27           | 65             | 17               | 18    | 0       | 10.8    |
| AAC Connect          |                  | 87             | 87                  | 94             | 58      | 109        | 49.5        | 32           | 72             | 18               | 10    | 2       | 10.6    |
| 20WAM-248.1          |                  | 86             | 86                  | 85             | 62      | 109        | 50.9        | 31           | 75             | 18               | 7     | 12      | 11.1    |
| LG Diablo            |                  |                | 85                  | 90             | 59      | 108        | 46.8        | 27           | 79             | 15               | 6     | 0       | 10.7    |
| 17ARS069-1           |                  | 87             | 84                  | 79             | 66      | 107        | 50.6        | 32           | 59             | 27               | 14    | 0       | 11.2    |
| 20WAM-721.1          |                  | 88             | 83                  | 88             | 52      | 109        | 48.5        | 30           | 72             | 18               | 10    | 0       | 11.6    |
| 20WAM-783.1          |                  | 85             | 83                  | 76             | 61      | 110        | 49.8        | 33           | 73             | 18               | 9     | 6       | 10.8    |
| 20WAM-487.1          |                  | 86             | 80                  | 83             | 54      | 103        | 51.1        | 31           | 75             | 18               | 7     | 1       | 11.0    |
| LGBU17-1320A         |                  |                | --                  | 93             | 61      | --         | --          | --           | --             | --               | --    | --      | --      |
| LCS Odyssey          |                  |                | --                  | 92             | 60      | --         | --          | --           | --             | --               | --    | --      | --      |
| LG Caruso            |                  |                | --                  | 86             | --      | --         | --          | --           | --             | --               | --    | --      | --      |
| DH131756             |                  |                | --                  | 83             | --      | --         | --          | --           | --             | --               | --    | --      | --      |
| Average              | 90               | 88             | 87                  | 89             | 60      | 111        | 49.0        | 30           | 70             | 20               | 10    | 2       | 10.8    |
| LSD (0.05)           | 5                | ns             | 6                   | 11             | 6       | ns         | 0.6         | 1            | 4              | 2                | 4     | 8       | --      |
| CV (%)               | 10.7             | 11.1           | 8.4                 | 8.7            | 6.7     | 5.9        | 1.5         | 5.1          | 7.7            | 13.5             | 47.1  | 405.0   | --      |

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

Table 41. Winter pea variety performance results at Moscow, 2024.

| Variety or Selection | Cotyledon Color | 2023–24 Crop Year     |                       |                    |                     |                  |                     |                  |                    |                          |                |             |
|----------------------|-----------------|-----------------------|-----------------------|--------------------|---------------------|------------------|---------------------|------------------|--------------------|--------------------------|----------------|-------------|
|                      |                 | 3-Year Average (lb/A) | 2-Year Average (lb/A) | Seed Yield (lb/A)* | 100 Seed Weight (g) | Seed Protein (%) | Test Weight (lb/bu) | Vine Length (in) | Canopy Height (in) | Plant Height Index (0-1) | Flowering Date | Shatter (%) |
| Pro 184-7148         | Yellow          | 3,029                 | 2,486                 | <b>1,754</b>       | 16.6                | 19.2             | 63.5                | 27               | 21                 | 0.80                     | 6/6            | 1           |
| Goldenwood           | Yellow          | 3,049                 | 2,120                 | <b>1,610</b>       | 14.9                | 19.4             | 64.3                | 25               | 19                 | 0.77                     | 6/8            | 5           |
| Vail                 | Green           | 3,072                 | 2,400                 | <b>1,603</b>       | 14.1                | 19.5             | 65.0                | 28               | 22                 | 0.78                     | 6/9            | 1           |
| Pro 172-7132         | Green           | 3,416                 | 2,748                 | <b>1,600</b>       | 15.9                | 19.8             | 64.2                | 24               | 20                 | 0.83                     | 6/4            | 3           |
| Pro 172-7107         | Green           | 2,771                 | 2,137                 | <b>1,551</b>       | 15.7                | 20.4             | 64.4                | 26               | 21                 | 0.81                     | 6/4            | 6           |
| Payback              | Yellow          | 2,965                 | 2,051                 | <b>1,494</b>       | 15.5                | 18.8             | 62.6                | 24               | 19                 | 0.77                     | 6/12           | 4           |
| Pro 182-7136         | Green           | 2,829                 | 2,113                 | <b>1,428</b>       | 15.6                | 21.2             | 65.1                | 31               | 25                 | 0.79                     | 6/7            | 6           |
| PS11300240W          | Green           | 3,005                 | 2,470                 | <b>1,388</b>       | 13.4                | 20.1             | 63.4                | 28               | 21                 | 0.78                     | 6/5            | 1           |
| Blaze                | Yellow          | 2,773                 | 2,003                 | <b>1,376</b>       | 15.7                | 18.8             | 64.2                | 24               | 20                 | 0.87                     | 6/9            | 6           |
| Windham              | Yellow          | 2,878                 | 2,326                 | <b>1,370</b>       | 13.0                | 18.1             | 64.9                | 24               | 20                 | 0.82                     | 6/7            | 4           |
| PS1634C0011W         | Yellow          |                       | 2,742                 | <b>1,328</b>       | 14.1                | 18.1             | 64.8                | 26               | 20                 | 0.80                     | 6/6            | 1           |
| KurtWood             | Green           | 2,890                 | 2,245                 | 1,215              | 16.6                | 22.5             | 61.8                | 31               | 24                 | 0.77                     | 6/9            | 0           |
| Dint                 | Green           | 2,383                 | 2,100                 | 1,021              | 12.1                | 22.1             | 59.1                | 27               | 22                 | 0.84                     | 6/23           | 0           |
| Keystone             | Green           | 2,600                 | 1,889                 | 1,014              | 15.1                | 17.4             | 64.5                | 27               | 21                 | 0.76                     | 6/7            | 8           |
| PS17340612W          | Green           | 2,416                 | 1,977                 | 977                | 14.8                | 18.7             | 60.7                | 26               | 20                 | 0.78                     | 6/6            | 9           |
| Klondike             | Yellow          | 2,681                 | 1,926                 | 955                | 14.5                | 23.6             | 64.3                | 28               | 20                 | 0.72                     | 6/11           | 11          |
| MiCa                 | Green           | 2,651                 | 1,824                 | 901                | 15.6                | 19.7             | 64.5                | 25               | 18                 | 0.75                     | 6/11           | 0           |
| Average              |                 | <b>2,838</b>          | <b>2,209</b>          | <b>1,328</b>       | <b>14.9</b>         | <b>19.8</b>      | <b>63.4</b>         | <b>26</b>        | <b>21</b>          | <b>0.79</b>              | <b>6/8</b>     | <b>4</b>    |
| LSD (0.05)           |                 | <b>325</b>            | <b>421</b>            | <b>466</b>         | <b>0.8</b>          | <b>1.5</b>       | <b>2.1</b>          | <b>4</b>         | <b>3</b>           | <b>0.14</b>              | <b>1.7</b>     | <b>5</b>    |
| CV (%)               |                 | <b>14.2</b>           | <b>19.2</b>           | <b>24.7</b>        | <b>3.7</b>          | <b>5.4</b>       | <b>1.9</b>          | <b>10.3</b>      | <b>9.5</b>         | <b>12.6</b>              | <b>22.8</b>    | <b>89.5</b> |

\*Variety or selection yields in bold were not statistically different from the top yielding variety.

**Table 42. Spring pea (green cotyledon) variety performance results at Ferdinand (Camas Prairie), 2024.**

| Variety or Selection | 2024 Crop Year        |                    |                     |                     |                  |                  |                    |                          |                |                 |
|----------------------|-----------------------|--------------------|---------------------|---------------------|------------------|------------------|--------------------|--------------------------|----------------|-----------------|
|                      | 2-Year Average (lb/A) | Seed Yield (lb/A)* | Test Weight (lb/bu) | 100 Seed Weight (g) | Seed Protein (%) | Vine Length (in) | Canopy Height (in) | Plant Height Index (0-1) | Flowering Date | Pod Shatter (%) |
| <b>Passion</b>       | 1,409                 | <b>1,743</b>       | 63.0                | 17.4                | 22.3             | 22               | 18                 | 0.79                     | 6/25           | 3               |
| <b>Pro 171-7665</b>  | 1,300                 | <b>1,669</b>       | 63.5                | 18.6                | 22.7             | 23               | 20                 | 0.87                     | 6/26           | 6               |
| <b>Shamrock</b>      | 1,229                 | <b>1,485</b>       | 63.1                | 16.6                | 25.3             | 27               | 22                 | 0.80                     | 7/1            | 5               |
| <b>PG 9641</b>       |                       | 1,445              | 62.0                | 18.2                | 24.5             | 27               | 23                 | 0.87                     | 6/28           | 5               |
| <b>PG 9645</b>       |                       | 1,424              | 62.7                | 16.3                | 25.1             | 26               | 22                 | 0.85                     | 6/28           | 5               |
| <b>PG 9634</b>       |                       | 1,392              | 63.7                | 17.5                | 25.1             | 26               | 22                 | 0.86                     | 6/28           | 6               |
| <b>Hampton</b>       | 1,186                 | 1,365              | 62.8                | 16.9                | 25.3             | 20               | 17                 | 0.84                     | 7/1            | 8               |
| <b>PG 9635</b>       |                       | 1,329              | 63.0                | 17.5                | 24.7             | 25               | 21                 | 0.84                     | 6/28           | 3               |
| <b>Vail**</b>        | 1,067                 | 1,311              | 62.8                | 12.1                | 28.6             | 23               | 19                 | 0.83                     | 7/2            | 1               |
| <b>PG 4046</b>       | 1,261                 | 1,304              | 62.5                | 17.0                | 25.9             | 24               | 20                 | 0.83                     | 6/27           | 10              |
| <b>PS17100182</b>    | 1,240                 | 1,288              | 63.3                | 16.1                | 27.9             | 29               | 23                 | 0.79                     | 6/30           | 5               |
| <b>Ariel</b>         | 1,252                 | 1,269              | 62.0                | 15.2                | 24.8             | 24               | 19                 | 0.79                     | 6/26           | 9               |
| <b>Ginny 2</b>       | 1,057                 | 1,219              | 62.3                | 17.6                | 24.2             | 23               | 19                 | 0.84                     | 6/26           | 11              |
| <b>Aragorn</b>       | 1,183                 | 1,206              | 62.4                | 17.2                | 23.9             | 25               | 20                 | 0.80                     | 6/26           | 8               |
| <b>Ultra</b>         | 1,070                 | 1,142              | 63.9                | 15.9                | 21.4             | 26               | 21                 | 0.84                     | 6/24           | 9               |
| <b>Columbian</b>     | 780                   | 1,042              | 62.6                | 15.7                | 25.5             | 35               | 10                 | 0.29                     | 6/23           | 1               |
| <b>Banner</b>        | 934                   | 925                | 62.7                | 15.9                | 21.8             | 26               | 20                 | 0.79                     | 6/24           | 15              |
| <b>PS16100017</b>    |                       | 899                | 62.1                | 16.4                | 23.4             | 23               | 19                 | 0.82                     | 6/26           | 18              |
| <b>Average</b>       | <b>1,151</b>          | <b>1,303</b>       | <b>62.8</b>         | <b>16.6</b>         | <b>24.6</b>      | <b>25</b>        | <b>20</b>          | <b>0.79</b>              | <b>6/27</b>    | <b>7</b>        |
| <b>LSD (0.05)</b>    | <b>243</b>            | <b>267</b>         | <b>0.6</b>          | <b>0.5</b>          | <b>1.6</b>       | <b>2</b>         | <b>2</b>           | <b>0.06</b>              | <b>1.6</b>     | <b>5</b>        |
| <b>CV (%)</b>        | <b>21.2</b>           | <b>14.4</b>        | <b>0.7</b>          | <b>2.0</b>          | <b>4.6</b>       | <b>6.3</b>       | <b>6.3</b>         | <b>5.1</b>               | <b>15.7</b>    | <b>52.2</b>     |

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

\*\*Varieties are winter pea.

Note: 3-year yield averages are not available as this location was lost to hail damage in 2022.

**Table 43. Spring pea (green cotyledon) variety performance results at Genesee, 2024.**

| Variety or Selection | 2024 Crop Year        |                       |                    |                     |                     |                  |                  |                    |                          |                |                 |
|----------------------|-----------------------|-----------------------|--------------------|---------------------|---------------------|------------------|------------------|--------------------|--------------------------|----------------|-----------------|
|                      | 3-Year Average (lb/A) | 2-Year Average (lb/A) | Seed Yield (lb/A)* | Test Weight (lb/bu) | 100 Seed Weight (g) | Seed Protein (%) | Vine Length (in) | Canopy Height (in) | Plant Height Index (0-1) | Flowering Date | Pod Shatter (%) |
| <b>Pro 171-7665</b>  |                       | 2,415                 | <b>2,233</b>       | 63.8                | 19.4                | 20.8             | 24               | 19                 | 0.80                     | 6/24           | 0               |
| <b>Ultra</b>         | 2,658                 | 2,437                 | <b>2,218</b>       | 65.7                | 17.5                | 18.9             | 27               | 20                 | 0.77                     | 6/21           | 3               |
| <b>Passion</b>       | 2,445                 | 2,312                 | <b>2,185</b>       | 63.7                | 18.3                | 21.0             | 22               | 18                 | 0.82                     | 6/24           | 0               |
| <b>PG 9634</b>       |                       |                       | <b>2,144</b>       | 64.9                | 18.5                | 23.3             | 27               | 21                 | 0.79                     | 6/27           | 3               |
| <b>Banner</b>        | 2,286                 | 2,246                 | <b>2,054</b>       | 65.2                | 16.9                | 19.5             | 25               | 20                 | 0.79                     | 6/21           | 3               |
| <b>PG 9641</b>       |                       |                       | 2,015              | 63.4                | 18.8                | 24.0             | 28               | 22                 | 0.79                     | 6/25           | 0               |
| <b>PG 9635</b>       |                       |                       | 2,011              | 64.6                | 17.3                | 23.5             | 28               | 22                 | 0.79                     | 6/25           | 0               |
| <b>Ginny 2</b>       | 2,482                 | 2,128                 | 2,006              | 63.4                | 17.4                | 23.4             | 23               | 19                 | 0.81                     | 6/24           | 1               |
| <b>PG 9645</b>       |                       |                       | 1,968              | 64.0                | 17.0                | 23.1             | 27               | 21                 | 0.78                     | 6/24           | 1               |
| <b>Aragorn</b>       | 2,014                 | 1,891                 | 1,937              | 62.5                | 17.8                | 23.3             | 24               | 19                 | 0.80                     | 6/23           | 1               |
| <b>PS17100182</b>    |                       | 2,315                 | 1,904              | 64.0                | 17.7                | 26.9             | 30               | 24                 | 0.80                     | 6/26           | 3               |
| <b>Ariel</b>         |                       | 1,990                 | 1,886              | 62.5                | 15.2                | 24.5             | 23               | 18                 | 0.79                     | 6/24           | 3               |
| <b>Hampton</b>       | 2,426                 | 2,204                 | 1,820              | 63.0                | 19.0                | 24.1             | 24               | 17                 | 0.73                     | 6/26           | 4               |
| <b>PG 4046</b>       |                       | 2,010                 | 1,778              | 63.2                | 17.0                | 24.8             | 27               | 21                 | 0.77                     | 6/24           | 5               |
| <b>PS16100017</b>    |                       |                       | 1,689              | 62.2                | 18.1                | 22.9             | 25               | 19                 | 0.75                     | 6/24           | 14              |
| <b>Columbian</b>     | 1,772                 | 1,715                 | 1,523              | 62.1                | 16.4                | 24.3             | 30               | 11                 | 0.35                     | 6/12           | 0               |
| <b>Vail**</b>        | 2,008                 | 1,815                 | 1,505              | 64.3                | 12.8                | 27.6             | 24               | 19                 | 0.80                     | 6/27           | 0               |
| <b>Shamrock</b>      | 2,132                 | 1,905                 | 1,379              | 64.3                | 17.7                | 23.6             | 28               | 23                 | 0.81                     | 6/26           | 38              |
| <b>Average</b>       | <b>2,247</b>          | <b>2,106</b>          | <b>1,903</b>       | <b>63.7</b>         | <b>17.4</b>         | <b>23.3</b>      | <b>26</b>        | <b>20</b>          | <b>0.76</b>              | <b>6/24</b>    | <b>4</b>        |
| <b>LSD (0.05)</b>    | <b>244</b>            | <b>146</b>            | <b>193</b>         | <b>0.6</b>          | <b>0.6</b>          | <b>0.5</b>       | <b>2</b>         | <b>2</b>           | <b>0.07</b>              | <b>0.9</b>     | <b>4</b>        |
| <b>CV (%)</b>        | <b>13.4</b>           | <b>7.0</b>            | <b>7.2</b>         | <b>0.6</b>          | <b>2.5</b>          | <b>1.6</b>       | <b>6.7</b>       | <b>6.3</b>         | <b>6.3</b>               | <b>5.0</b>     | <b>72.5</b>     |

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

\*\*Varieties are winter pea.

**Table 44. Spring pea (green cotyledon) variety performance comparison across northern Idaho, 2024.**

| Variety or Selection | 2024 Crop Year*  |                     |              |              |                 |                |               |                    |              |
|----------------------|------------------|---------------------|--------------|--------------|-----------------|----------------|---------------|--------------------|--------------|
|                      | 2-Year Yield     | North Idaho Average | Genesee      | Ferdinand    | 100 Seed Weight | Vine Length    | Canopy Height | Plant Height Index | Seed Protein |
|                      | ----- lb/A ----- |                     |              |              | (grams)         | -- (inches) -- |               | (0-1)              | (%)          |
| <b>Passion</b>       | 1,861            | <b>1,964</b>        | <b>2,185</b> | <b>1,743</b> | 17.8            | 22             | 18            | 0.80               | 21.6         |
| <b>Pro 171-7665</b>  | 1,857            | <b>1,951</b>        | <b>2,233</b> | <b>1,669</b> | 19.0            | 24             | 20            | 0.84               | 21.8         |
| <b>PG 9634</b>       |                  | 1,768               | <b>2,144</b> | 1,392        | 18.0            | 26             | 22            | 0.83               | 24.2         |
| <b>PG 9641</b>       |                  | 1,730               | 2,015        | 1,445        | 18.5            | 27             | 23            | 0.83               | 24.3         |
| <b>PG 9645</b>       |                  | 1,696               | 1,968        | 1,424        | 16.6            | 26             | 21            | 0.81               | 24.1         |
| <b>Ultra</b>         | 1,754            | 1,680               | <b>2,218</b> | 1,142        | 16.7            | 26             | 21            | 0.80               | 20.2         |
| <b>PG 9635</b>       |                  | 1,670               | 2,011        | 1,329        | 17.4            | 26             | 22            | 0.82               | 24.1         |
| <b>Ginny 2</b>       | 1,592            | 1,613               | 2,006        | 1,219        | 17.5            | 23             | 19            | 0.82               | 23.8         |
| <b>PS17100182</b>    | 1,777            | 1,596               | 1,904        | 1,288        | 16.9            | 30             | 23            | 0.79               | 27.4         |
| <b>Hampton</b>       | 1,695            | 1,592               | 1,820        | 1,365        | 17.9            | 22             | 17            | 0.78               | 24.7         |
| <b>Ariel</b>         | 1,621            | 1,577               | 1,886        | 1,269        | 15.2            | 24             | 19            | 0.79               | 24.6         |
| <b>Aragorn</b>       | 1,537            | 1,571               | 1,937        | 1,206        | 17.5            | 24             | 19            | 0.80               | 23.6         |
| <b>PG 4046</b>       | 1,635            | 1,541               | 1,778        | 1,304        | 17.0            | 26             | 20            | 0.80               | 25.4         |
| <b>Banner</b>        | 1,590            | 1,490               | <b>2,054</b> | 925          | 16.4            | 25             | 20            | 0.79               | 20.7         |
| <b>Shamrock</b>      | 1,567            | 1,432               | 1,379        | <b>1,485</b> | 17.1            | 28             | 22            | 0.80               | 24.5         |
| <b>Vail**</b>        | 1,441            | 1,408               | 1,505        | 1,311        | 12.4            | 24             | 19            | 0.81               | 28.1         |
| <b>PS16100017</b>    |                  | 1,294               | 1,689        | 899          | 17.2            | 24             | 19            | 0.78               | 23.1         |
| <b>Columbian</b>     | 1,248            | 1,282               | 1,523        | 1,042        | 16.1            | 32             | 10            | 0.32               | 24.9         |
| <b>Average</b>       | <b>1,629</b>     | <b>1,603</b>        | <b>1,903</b> | <b>1,303</b> | <b>17.0</b>     | <b>25</b>      | <b>20</b>     | <b>0.78</b>        | <b>23.9</b>  |
| <b>LSD (0.05)</b>    | <b>143</b>       | <b>164</b>          | <b>193</b>   | <b>267</b>   | <b>0.4</b>      | <b>2</b>       | <b>1</b>      | <b>0.04</b>        | <b>0.9</b>   |
| <b>CV (%)</b>        | <b>12.6</b>      | <b>10.3</b>         | <b>7.2</b>   | <b>14.4</b>  | <b>2.6</b>      | <b>6.8</b>     | <b>6.3</b>    | <b>5.8</b>         | <b>3.7</b>   |

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

\*\*Varieties are winter pea.

Note: 3-year average yield is not available since the 2022 Ferdinand trial was lost to hail damage.

**Table 45. Spring pea (yellow cotyledon) variety performance results at Ferdinand (Camas Prairie), 2024.**

| Variety or Selection | 2-Year Average (lb/A) | 2024 Crop Year     |                     |                     |                  |                  |                    |                          |                |                 |
|----------------------|-----------------------|--------------------|---------------------|---------------------|------------------|------------------|--------------------|--------------------------|----------------|-----------------|
|                      |                       | Seed Yield (lb/A)* | Test Weight (lb/bu) | 100 Seed Weight (g) | Seed Protein (%) | Vine Length (in) | Canopy Height (in) | Plant Height Index (0-1) | Flowering Date | Pod Shatter (%) |
| AAC Julius           | 1,540                 | <b>1,616</b>       | 61.0                | 16.5                | 27.2             | 25               | 22                 | 0.87                     | 6/28           | 3               |
| 5206                 | 1,537                 | <b>1,612</b>       | 61.3                | 18.0                | 28.4             | 32               | 28                 | 0.88                     | 6/30           | 6               |
| PS17100022           | 1,523                 | <b>1,610</b>       | 62.5                | 19.7                | 26.9             | 32               | 26                 | 0.83                     | 6/28           | 4               |
| PS22100111           |                       | <b>1,535</b>       | 61.8                | 19.3                | 24.0             | 29               | 25                 | 0.87                     | 6/29           | 5               |
| PS17100120           |                       | <b>1,445</b>       | 61.3                | 20.8                | 23.7             | 24               | 20                 | 0.81                     | 6/29           | 5               |
| Pro 173-7406         | 1,185                 | <b>1,432</b>       | 59.7                | 20.0                | 23.0             | 28               | 22                 | 0.80                     | 6/26           | 11              |
| PS22100020           |                       | 1,342              | 59.7                | 19.3                | 26.7             | 25               | 21                 | 0.84                     | 6/27           | 8               |
| PS17100008           | 1,212                 | 1,337              | 61.4                | 19.6                | 21.4             | 20               | 16                 | 0.80                     | 6/26           | 11              |
| Carousel             | 1,354                 | 1,334              | 62.4                | 19.8                | 25.1             | 25               | 21                 | 0.84                     | 6/28           | 8               |
| AAC Chrome           | 1,214                 | 1,278              | 60.9                | 17.2                | 24.9             | 23               | 19                 | 0.81                     | 6/28           | 9               |
| Pro 143-6230         |                       | 1,201              | 61.6                | 17.7                | 24.6             | 25               | 20                 | 0.79                     | 6/28           | 9               |
| Payback**            | 928                   | 1,070              | 61.3                | 11.3                | 25.7             | 16               | 13                 | 0.85                     | 7/5            | 0               |
| Average              | <b>1,310</b>          | <b>1,401</b>       | <b>61.3</b>         | <b>18.3</b>         | <b>25.1</b>      | <b>25</b>        | <b>21</b>          | <b>0.83</b>              | <b>6/28</b>    | <b>6</b>        |
| LSD (0.05)           | 231                   | 252                | 0.7                 | 0.6                 | 1.6              | 2                | 2                  | ns                       | 1.3            | 5               |
| CV (%)               | 17.2                  | 12.5               | 0.8                 | 2.3                 | 4.5              | 5.3              | 5.8                | 5.4                      | 10.5           | 54.0            |

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

\*\*Varieties are winter pea.

**Table 46. Spring pea (yellow cotyledon) variety performance results at Genesee, 2024.**

| Variety or Selection | 3-Year Average (lb/A) | 2-Year Average (lb/A) | 2024 Crop Year     |                     |                     |                  |                  |                    |                          |                |                 |
|----------------------|-----------------------|-----------------------|--------------------|---------------------|---------------------|------------------|------------------|--------------------|--------------------------|----------------|-----------------|
|                      |                       |                       | Seed Yield (lb/A)* | Test Weight (lb/bu) | 100 Seed Weight (g) | Seed Protein (%) | Vine Length (in) | Canopy Height (in) | Plant Height Index (0-1) | Flowering Date | Pod Shatter (%) |
| PS17100008           | 2,667                 | 2,319                 | <b>2,199</b>       | 63.3                | 20.7                | 21.8             | 19               | 16                 | 0.86                     | 6/24           | 4               |
| PS17100022           | 2,647                 | 2,481                 | <b>2,052</b>       | 64.6                | 19.9                | 25.4             | 30               | 24                 | 0.79                     | 6/24           | 0               |
| AAC Julius           | 2,732                 | 2,424                 | <b>2,040</b>       | 63.2                | 17.1                | 25.7             | 27               | 22                 | 0.79                     | 6/25           | 1               |
| 5206                 |                       | 2,360                 | 1,895              | 63.6                | 18.9                | 25.8             | 32               | 24                 | 0.75                     | 6/25           | 5               |
| PS17100120           |                       |                       | 1,853              | 62.5                | 22.2                | 22.6             | 24               | 19                 | 0.79                     | 6/25           | 10              |
| Pro 173-7406         | 2,462                 | 2,202                 | 1,840              | 62.0                | 20.1                | 22.3             | 27               | 22                 | 0.80                     | 6/24           | 8               |
| PS22100111           |                       |                       | 1,790              | 63.7                | 21.0                | 23.1             | 29               | 24                 | 0.81                     | 6/24           | 5               |
| Pro 143-6230         |                       |                       | 1,679              | 63.1                | 18.2                | 24.5             | 24               | 19                 | 0.77                     | 6/24           | 4               |
| Carousel             | 2,294                 | 1,857                 | 1,653              | 64.6                | 20.3                | 24.9             | 27               | 22                 | 0.82                     | 6/24           | 23              |
| PS22100020           |                       |                       | 1,492              | 62.8                | 20.3                | 25.8             | 27               | 22                 | 0.83                     | 6/24           | 28              |
| AAC Chrome           | 2,512                 | 2,046                 | 1,484              | 62.2                | 17.6                | 23.9             | 25               | 19                 | 0.77                     | 6/26           | 9               |
| Payback**            |                       | 1,386                 | 1,190              | 63.7                | 12.9                | 25.5             | 16               | 13                 | 0.81                     | 6/30           | 0               |
| Average              | <b>2,552</b>          | <b>2,146</b>          | <b>1,764</b>       | <b>63.3</b>         | <b>19.1</b>         | <b>24.3</b>      | <b>26</b>        | <b>20</b>          | <b>0.80</b>              | <b>6/25</b>    | <b>8</b>        |
| LSD (0.05)           | ns                    | 230                   | 296                | 0.5                 | 0.7                 | 0.9              | 2                | 2                  | ns                       | 1.3            | 8               |
| CV (%)               | 17.7                  | 10.5                  | 11.7               | 0.6                 | 2.6                 | 2.6              | 6.3              | 5.9                | 6.1                      | 6.7            | 66.0            |

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

\*\*Varieties are winter pea.

**Table 47. Spring pea (yellow cotyledon) variety performance comparison across northern Idaho, 2024.**

| Variety or Selection | 2-Year Yield | 2024 Crop Year*     |              |              |                 |                |               |                    |              |
|----------------------|--------------|---------------------|--------------|--------------|-----------------|----------------|---------------|--------------------|--------------|
|                      |              | North Idaho Average | Genesee      | Ferdinand    | 100 Seed Weight | Vine Length    | Canopy Height | Plant Height Index | Seed Protein |
|                      |              | ----- lb/A -----    |              |              | (grams)         | -- (inches) -- |               | (0-1)              | (%)          |
| PS17100022           | 2,002        | <b>1,831</b>        | <b>2,052</b> | <b>1,610</b> | 19.8            | 31             | 25            | 0.81               | 26.1         |
| AAC Julius           | 1,982        | <b>1,828</b>        | <b>2,040</b> | <b>1,616</b> | 16.8            | 26             | 22            | 0.83               | 26.4         |
| PS17100008           | 1,765        | <b>1,768</b>        | <b>2,199</b> | 1,337        | 20.1            | 19             | 16            | 0.83               | 21.6         |
| 5206                 | 1,976        | <b>1,754</b>        | 1,895        | <b>1,612</b> | 18.4            | 32             | 26            | 0.81               | 27.1         |
| PS22100111           |              | <b>1,662</b>        | 1,790        | <b>1,535</b> | 20.2            | 29             | 24            | 0.84               | 23.6         |
| PS17100120           |              | <b>1,649</b>        | 1,853        | <b>1,445</b> | 21.5            | 24             | 19            | 0.80               | 23.1         |
| Pro 173-7406         | 1,694        | <b>1,636</b>        | 1,840        | <b>1,432</b> | 20.0            | 27             | 22            | 0.80               | 22.6         |
| Carousel             |              | 1,493               | 1,653        | 1,334        | 20.0            | 26             | 22            | 0.83               | 25.0         |
| Pro 143-6230         |              | 1,440               | 1,679        | 1,201        | 18.0            | 25             | 19            | 0.78               | 24.6         |
| PS22100020           |              | 1,417               | 1,492        | 1,342        | 19.8            | 26             | 22            | 0.83               | 26.3         |
| AAC Chrome           | 1,606        | 1,381               | 1,484        | 1,278        | 17.4            | 24             | 19            | 0.79               | 24.4         |
| Payback**            | 1,142        | 1,130               | 1,190        | 1,070        | 12.1            | 16             | 13            | 0.83               | 25.6         |
| Average              | <b>1,731</b> | <b>1,582</b>        | <b>1,764</b> | <b>1,401</b> | <b>18.7</b>     | <b>25</b>      | <b>21</b>     | <b>0.81</b>        | <b>24.7</b>  |
| LSD (0.05)           | <b>164</b>   | <b>225</b>          | <b>296</b>   | <b>252</b>   | <b>0.5</b>      | <b>2</b>       | <b>1</b>      | <b>ns</b>          | <b>1.1</b>   |
| CV (%)               | <b>13.3</b>  | <b>14.3</b>         | <b>11.7</b>  | <b>12.5</b>  | <b>2.9</b>      | <b>6.5</b>     | <b>5.9</b>    | <b>6.0</b>         | <b>4.6</b>   |

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

\*\*Varieties are winter pea.

Note: 3-year average yield is not available since the 2022 Ferdinand trial was lost to hail damage.

**Table 48. Spring lentil variety performance results at Ferdinand (Camas Prairie), 2024.**

| Variety or Selection | Market Class  | 2024 Crop Year        |                    |                     |                  |                   |                    |                          |                |
|----------------------|---------------|-----------------------|--------------------|---------------------|------------------|-------------------|--------------------|--------------------------|----------------|
|                      |               | 2-Year Average (lb/A) | Seed Yield (lb/A)* | 100 Seed Weight (g) | Seed Protein (%) | Plant Height (in) | Canopy Height (in) | Plant Height Index (0-1) | Flowering Date |
| LC06601616R          | Medium green  |                       | <b>656</b>         | 5.2                 | 25.4             | 13                | 10                 | 0.80                     | 6/26           |
| LC08600113P          | Spanish brown |                       | <b>580</b>         | 4.7                 | 24.6             | 12                | 9                  | 0.74                     | 6/29           |
| LC14600088R          | Medium green  | 430                   | <b>578</b>         | 5.2                 | 25.1             | 13                | 10                 | 0.76                     | 6/27           |
| LC14600027P          | Spanish brown |                       | <b>573</b>         | 4.8                 | 26.8             | 13                | 11                 | 0.85                     | 6/26           |
| LC14600017P          | Spanish brown | 454                   | <b>555</b>         | 4.7                 | 26.3             | 13                | 11                 | 0.83                     | 6/27           |
| LC19640586R          | Medium green  | 490                   | <b>547</b>         | 4.8                 | 25.8             | 14                | 11                 | 0.78                     | 6/27           |
| LC19640192R          | Medium green  | 513                   | <b>544</b>         | 4.7                 | 26.1             | 13                | 11                 | 0.83                     | 6/25           |
| LC19640200P          | Spanish brown |                       | <b>511</b>         | 4.6                 | 26.6             | 12                | 10                 | 0.86                     | 6/24           |
| LC09600507P          | Spanish brown |                       | <b>496</b>         | 4.6                 | 25.5             | 12                | 10                 | 0.84                     | 6/25           |
| Avondale             | Medium green  | 496                   | <b>488</b>         | 5.1                 | 26.0             | 14                | 12                 | 0.84                     | 6/27           |
| Morena               | Spanish brown | 369                   | <b>485</b>         | 4.4                 | 28.3             | 13                | 10                 | 0.81                     | 6/28           |
| Pardina              | Spanish brown | 463                   | <b>430</b>         | 4.4                 | 25.4             | 11                | 9                  | 0.78                     | 6/25           |
| Merrit               | Large green   | 568                   | <b>417</b>         | 5.6                 | 26.9             | 14                | 11                 | 0.82                     | 6/24           |
| Brewer               | Large green   | 278                   | 310                | 5.0                 | 26.4             | 15                | 11                 | 0.72                     | 6/24           |
| Average              |               | 450                   | 512                | 4.8                 | 26.1             | 13                | 10                 | 0.80                     | 6/26           |
| LSD (0.05)           |               | ns                    | 140                | 0.3                 | --               | 1                 | 1                  | ns                       | 2.2            |
| CV (%)               |               | 46.6                  | 19.1               | 4.4                 | --               | 0.6               | 7.2                | 10.1                     | 26.8           |

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

**Table 49. Spring lentil variety performance results at Genesee, 2024.**

| Variety or Selection | Market Class  | 2024 Crop Year        |                       |                    |                     |                  |                   |                    |                          |                |
|----------------------|---------------|-----------------------|-----------------------|--------------------|---------------------|------------------|-------------------|--------------------|--------------------------|----------------|
|                      |               | 3-Year Average (lb/A) | 2-Year Average (lb/A) | Seed Yield (lb/A)* | 100 Seed Weight (g) | Seed Protein (%) | Plant Height (in) | Canopy Height (in) | Plant Height Index (0-1) | Flowering Date |
| Avondale             | Medium green  | 1,390                 | 1,356                 | <b>959</b>         | 4.9                 | 26.8             | 13                | 10                 | 0.78                     | 6/25           |
| LC14600088R          | Medium green  | 1,285                 | 1,292                 | <b>940</b>         | 5.1                 | 27.0             | 14                | 10                 | 0.68                     | 6/25           |
| Morena               | Spanish brown | 1,354                 | 1,384                 | <b>934</b>         | 4.5                 | 28.6             | 11                | 10                 | 0.85                     | 6/26           |
| LC14600017P          | Spanish brown | 1,423                 | 1,357                 | <b>933</b>         | 4.6                 | 26.8             | 13                | 8                  | 0.66                     | 6/26           |
| LC19640200P          | Spanish brown |                       |                       | <b>920</b>         | 4.7                 | 28.9             | 12                | 8                  | 0.66                     | 6/21           |
| LC14600027P          | Spanish brown |                       |                       | <b>904</b>         | 4.8                 | 26.6             | 12                | 10                 | 0.85                     | 6/26           |
| LC19640192R          | Medium green  |                       | 1,343                 | <b>861</b>         | 4.5                 | 25.9             | 13                | 10                 | 0.75                     | 6/24           |
| LC06601616R          | Medium green  |                       |                       | <b>858</b>         | 5.2                 | 25.8             | 13                | 10                 | 0.80                     | 6/25           |
| LC19640586R          | Medium green  |                       | 1,131                 | <b>839</b>         | 4.9                 | 26.0             | 13                | 10                 | 0.75                     | 6/25           |
| LC08600113P          | Spanish brown | 1,163                 | 1,222                 | <b>817</b>         | 4.9                 | 25.9             | 12                | 9                  | 0.73                     | 6/25           |
| Pardina              | Spanish brown | 1,218                 | 1,213                 | <b>713</b>         | 4.6                 | 26.0             | 12                | 8                  | 0.70                     | 6/24           |
| LC09600507P          | Spanish brown |                       |                       | <b>705</b>         | 4.6                 | 28.5             | 12                | 8                  | 0.67                     | 6/23           |
| Merrit               | Large green   | 1,005                 | 1,099                 | <b>690</b>         | 5.7                 | 27.7             | 13                | 9                  | 0.73                     | 6/22           |
| Brewer               | Large green   | 880                   | 893                   | 425                | 5.2                 | 26.5             | 12                | 8                  | 0.69                     | 6/23           |
| Average              |               | 1,214                 | 1,228                 | 823                | 4.9                 | 26.9             | 12                | 9                  | 0.73                     | 6/24           |
| LSD (0.05)           |               | 149                   | 159                   | 253                | 0.3                 | --               | 1                 | 0.9                | 0.10                     | 2.0            |
| CV (%)               |               | 14.3                  | 12.2                  | 18.7               | 4.1                 | --               | 6.5               | 7.1                | 9.4                      | 14.7           |

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

**Table 50. Spring lentil variety performance comparison across northern Idaho, 2024.**

| Variety or Selection | Market Class  | 2-Year Yield | 2024 Crop Year*     |         |           |                 |                |               |                    |              |
|----------------------|---------------|--------------|---------------------|---------|-----------|-----------------|----------------|---------------|--------------------|--------------|
|                      |               |              | North Idaho Average | Genesee | Ferdinand | 100 Seed Weight | Plant Height   | Canopy Height | Plant Height Index | Seed Protein |
|                      |               |              | lb/A                |         |           | (grams)         | -- (inches) -- |               | (0-1)              | (%)          |
| LC14600088R          | Medium green  | 865          | 759                 | 940     | 578       | 5.1             | 14             | 10            | 0.72               | 26.0         |
| LC06601616R          | Medium green  |              | 757                 | 858     | 656       | 5.2             | 13             | 10            | 0.80               | 25.6         |
| LC14600027P          | Spanish brown |              | 738                 | 904     | 573       | 4.8             | 12             | 10            | 0.85               | 26.7         |
| LC14600017P          | Spanish brown | 875          | 717                 | 933     | 555       | 4.6             | 13             | 10            | 0.75               | 26.5         |
| LC19640192R          | Medium green  | 928          | 702                 | 861     | 544       | 4.6             | 13             | 10            | 0.79               | 26.0         |
| LC19640586R          | Medium green  | 810          | 693                 | 839     | 547       | 4.8             | 13             | 10            | 0.77               | 25.9         |
| Avondale             | Medium green  | 897          | 690                 | 959     | 488       | 5.0             | 14             | 11            | 0.81               | 26.4         |
| LC19640200P          | Spanish brown |              | 686                 | 920     | 511       | 4.7             | 12             | 9             | 0.76               | 27.7         |
| LC08600113P          | Spanish brown | 769          | 659                 | 817     | 580       | 4.8             | 12             | 9             | 0.73               | 25.2         |
| Morena               | Spanish brown | 804          | 635                 | 934     | 485       | 4.5             | 12             | 10            | 0.83               | 28.4         |
| LC09600507P          | Spanish brown |              | 586                 | 705     | 496       | 4.6             | 12             | 9             | 0.75               | 27.0         |
| Pardina              | Spanish brown | 838          | 571                 | 713     | 430       | 4.5             | 11             | 8             | 0.74               | 25.7         |
| Merrit               | Large green   | 816          | 534                 | 690     | 417       | 5.6             | 13             | 10            | 0.77               | 27.3         |
| Brewer               | Large green   | 565          | 359                 | 425     | 310       | 5.1             | 14             | 9             | 0.71               | 26.5         |
| Average              |               | 818          | 652                 | 823     | 512       | 4.8             | 13             | 10            | 0.77               | 26.5         |
| LSD (0.05)           |               | 143          | 161                 | 253     | 140       | 0.2             | 1              | 1             | 0.08               | --           |
| CV (%)               |               | 24.2         | 23.5                | 18.7    | 19.1      | 4.2             | 7.1            | 7.4           | 10.2               | --           |

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

Note: 3-year average yield is not available since the 2022 Ferdinand trial was lost to hail damage.

**Table 51. Chickpea variety performance results at Ferdinand (Camas Prairie), 2024.**

| Variety or Selection | 2024 Crop Year        |                    |                     |                     |                  |                   |                    |                          |                   |             |             |             |                |
|----------------------|-----------------------|--------------------|---------------------|---------------------|------------------|-------------------|--------------------|--------------------------|-------------------|-------------|-------------|-------------|----------------|
|                      | 2-Year Average (lb/A) | Seed Yield (lb/A)* | Test Weight (lb/bu) | 100 Seed Weight (g) | Seed Protein (%) | Plant Height (in) | Canopy Height (in) | Plant Height Index (0-1) | Chickpea Size (%) |             |             |             | Flowering Date |
|                      |                       |                    |                     |                     |                  |                   |                    |                          | (>25/64")         | (>22/64")   | (>20/64")   | (<20/64")   |                |
| <b>CDC Frontier</b>  | 1,272                 | <b>1,565</b>       | 62.8                | 31.9                | 21.7             | 18                | 16                 | 0.93                     | 0                 | 19          | 59          | 22          | 6/29           |
| <b>Billybeans</b>    | 1,339                 | <b>1,555</b>       | 62.6                | 28.0                | 22.3             | 19                | 17                 | 0.88                     | 0                 | 2           | 42          | 56          | 6/25           |
| <b>CDC Orion</b>     | 1,231                 | <b>1,511</b>       | 61.5                | 40.0                | 20.2             | 16                | 15                 | 0.97                     | 5                 | 64          | 26          | 5           | 6/24           |
| <b>MT Bridger</b>    |                       | <b>1,485</b>       | 62.4                | 32.4                | 22.2             | 18                | 18                 | 0.96                     | <1                | 21          | 52          | 27          | 7/1            |
| <b>CDC Palmer</b>    | 1,245                 | <b>1,451</b>       | 62.2                | 33.8                | 20.6             | 15                | 15                 | 1.00                     | 1                 | 29          | 46          | 25          | 6/26           |
| <b>NSSCX04</b>       | 979                   | <b>1,373</b>       | 61.9                | 40.2                | 23.1             | 17                | 16                 | 0.95                     | 5                 | 47          | 32          | 15          | 7/1            |
| <b>CDC Leader</b>    | 1,113                 | 1,366              | 62.3                | 34.6                | 20.4             | 15                | 15                 | 0.97                     | <1                | 34          | 50          | 15          | 6/28           |
| <b>NSSCX01</b>       | 1,040                 | 1,353              | 62.1                | 40.3                | 22.9             | 17                | 17                 | 0.96                     | 5                 | 43          | 39          | 12          | 7/1            |
| <b>Sawyer</b>        | 1,153                 | 1,345              | 62.0                | 38.6                | 22.0             | 17                | 16                 | 0.93                     | 2                 | 41          | 47          | 10          | 6/26           |
| <b>Kasin</b>         | 1,166                 | 1,291              | 64.1                | 26.6                | 22.8             | 21                | 19                 | 0.92                     | 0                 | 1           | 24          | 75          | 6/29           |
| <b>ND Crown</b>      |                       | 1,274              | 62.5                | 32.7                | 22.4             | 20                | 19                 | 0.92                     | 1                 | 38          | 42          | 19          | 7/1            |
| <b>New Hope</b>      | 946                   | 1,243              | 62.1                | 33.7                | 22.7             | 20                | 19                 | 0.95                     | 1                 | 28          | 49          | 22          | 7/1            |
| <b>Nash</b>          | 875                   | 1,201              | 60.5                | 44.9                | 22.6             | 18                | 16                 | 0.90                     | 23                | 51          | 15          | 12          | 6/30           |
| <b>CA15940057C</b>   | 845                   | 1,186              | 60.5                | 46.0                | 23.1             | 17                | 16                 | 0.96                     | 21                | 56          | 16          | 8           | 7/2            |
| <b>CA17900020C</b>   | 796                   | 1,173              | 59.7                | 42.6                | 22.6             | 19                | 17                 | 0.91                     | 8                 | 49          | 30          | 13          | 6/30           |
| <b>CA13900162C</b>   | 890                   | 1,148              | 59.7                | 41.4                | 21.5             | 18                | 16                 | 0.89                     | 12                | 53          | 23          | 11          | 6/26           |
| <b>Sierra</b>        | 831                   | 1,022              | 60.2                | 42.1                | 21.5             | 17                | 16                 | 0.94                     | 8                 | 59          | 25          | 8           | 6/30           |
| <b>Average</b>       | <b>1,046</b>          | <b>1,321</b>       | <b>61.9</b>         | <b>37.2</b>         | <b>22.0</b>      | <b>18</b>         | <b>17</b>          | <b>0.94</b>              | <b>5</b>          | <b>38</b>   | <b>36</b>   | <b>20</b>   | <b>6/29</b>    |
| <b>LSD (0.05)</b>    | <b>179</b>            | <b>194</b>         | <b>1.1</b>          | <b>2.6</b>          | <b>0.8</b>       | <b>1</b>          | <b>1</b>           | <b>ns</b>                | <b>4</b>          | <b>10</b>   | <b>8</b>    | <b>9</b>    | <b>2.1</b>     |
| <b>CV (%)</b>        | <b>17.0</b>           | <b>10.1</b>        | <b>1.1</b>          | <b>4.9</b>          | <b>2.4</b>       | <b>5.5</b>        | <b>5.4</b>         | <b>6.1</b>               | <b>45.2</b>       | <b>17.6</b> | <b>15.5</b> | <b>30.8</b> | <b>17.0</b>    |

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

**Table 52. Chickpea variety performance results at Genesee, 2024.**

| Variety or Selection | 3-Year Average (lb/A) | 2-Year Average (lb/A) | 2024 Crop Year     |                     |                     |                  |                   |                    |                          |                   |             |             |             |                |
|----------------------|-----------------------|-----------------------|--------------------|---------------------|---------------------|------------------|-------------------|--------------------|--------------------------|-------------------|-------------|-------------|-------------|----------------|
|                      |                       |                       | Seed Yield (lb/A)* | Test Weight (lb/bu) | 100 Seed Weight (g) | Seed Protein (%) | Plant Height (in) | Canopy Height (in) | Plant Height Index (0-1) | Chickpea Size (%) |             |             |             | Flowering Date |
|                      |                       |                       |                    |                     |                     |                  |                   |                    |                          | (>25/64")         | (>22/64")   | (>20/64")   | (<20/64")   |                |
| <b>MT Bridger</b>    |                       |                       | <b>1,835</b>       | 61.1                | 39.8                | 20.3             | 19                | 16                 | 0.86                     | <1                | 39          | 52          | 8           | 6/26           |
| <b>NSSCX04</b>       |                       | 1,837                 | 1,635              | 61.3                | 44.7                | 20.4             | 16                | 14                 | 0.86                     | 6                 | 67          | 24          | 3           | 6/27           |
| <b>NSSCX01</b>       |                       | 1,793                 | 1,590              | 60.8                | 45.0                | 20.7             | 15                | 14                 | 0.91                     | 6                 | 62          | 28          | 3           | 6/26           |
| <b>CDC Frontier</b>  | 2,362                 | 2,008                 | 1,583              | 62.4                | 35.6                | 20.6             | 16                | 14                 | 0.87                     | 1                 | 25          | 63          | 12          | 6/25           |
| <b>CDC Orion</b>     | 2,061                 | 1,770                 | 1,578              | 60.5                | 41.8                | 18.2             | 16                | 14                 | 0.89                     | 5                 | 55          | 36          | 5           | 6/24           |
| <b>Billybeans</b>    | 2,235                 | 1,910                 | 1,558              | 62.2                | 27.5                | 20.4             | 18                | 14                 | 0.82                     | <1                | 3           | 32          | 65          | 6/24           |
| <b>Nash</b>          | 1,925                 | 1,737                 | 1,517              | 59.5                | 43.3                | 22.1             | 17                | 14                 | 0.84                     | 27                | 63          | 8           | 2           | 6/26           |
| <b>CA17900020C</b>   | 1,968                 | 1,695                 | 1,493              | 59.9                | 44.9                | 20.8             | 17                | 15                 | 0.84                     | 11                | 75          | 12          | 1           | 6/25           |
| <b>CDC Palmer</b>    | 2,086                 | 1,752                 | 1,461              | 61.6                | 37.9                | 19.4             | 15                | 14                 | 0.90                     | <1                | 40          | 51          | 9           | 6/24           |
| <b>ND Crown</b>      |                       |                       | 1,445              | 61.7                | 43.2                | 21.6             | 20                | 17                 | 0.82                     | 1                 | 66          | 29          | 3           | 6/26           |
| <b>Kasin</b>         | 2,059                 | 1,782                 | 1,428              | 62.6                | 29.7                | 20.9             | 20                | 17                 | 0.87                     | 1                 | 3           | 24          | 72          | 6/26           |
| <b>CA15940057C</b>   | 2,013                 | 1,665                 | 1,427              | 59.1                | 42.7                | 21.9             | 16                | 13                 | 0.82                     | 21                | 70          | 7           | 1           | 6/26           |
| <b>CDC Leader</b>    | 2,103                 | 1,734                 | 1,377              | 61.9                | 38.2                | 20.1             | 15                | 13                 | 0.88                     | 0                 | 43          | 49          | 7           | 6/25           |
| <b>CA13900162C</b>   | 2,052                 | 1,736                 | 1,376              | 59.1                | 42.2                | 20.7             | 17                | 14                 | 0.84                     | 16                | 73          | 9           | 1           | 6/26           |
| <b>Sawyer</b>        | 1,793                 | 1,620                 | 1,363              | 61.9                | 40.0                | 21.0             | 15                | 13                 | 0.88                     | 4                 | 43          | 46          | 7           | 6/26           |
| <b>New Hope</b>      | 1,689                 | 1,501                 | 1,310              | 61.9                | 39.9                | 21.4             | 20                | 17                 | 0.85                     | 1                 | 48          | 45          | 6           | 6/26           |
| <b>Sierra</b>        | 1,690                 | 1,495                 | 1,229              | 60.8                | 43.7                | 20.9             | 16                | 13                 | 0.84                     | 8                 | 71          | 18          | 3           | 6/26           |
| <b>Average</b>       | <b>2,001</b>          | <b>1,734</b>          | <b>1,482</b>       | <b>61.1</b>         | <b>40.0</b>         | <b>20.7</b>      | <b>17</b>         | <b>14</b>          | <b>0.86</b>              | <b>6</b>          | <b>50</b>   | <b>31</b>   | <b>12</b>   | <b>6/25</b>    |
| <b>LSD (0.05)</b>    | <b>214</b>            | <b>133</b>            | <b>124</b>         | <b>0.7</b>          | <b>2.8</b>          | <b>0.5</b>       | <b>1</b>          | <b>1</b>           | <b>0.07</b>              | <b>4</b>          | <b>8</b>    | <b>7</b>    | <b>5</b>    | <b>1.1</b>     |
| <b>CV (%)</b>        | <b>13.1</b>           | <b>7.7</b>            | <b>5.9</b>         | <b>0.8</b>          | <b>4.9</b>          | <b>1.8</b>       | <b>5.4</b>        | <b>4.5</b>         | <b>6.1</b>               | <b>45.6</b>       | <b>10.6</b> | <b>16.1</b> | <b>30.6</b> | <b>5.3</b>     |

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

**Table 53. Chickpea variety performance comparison across northern Idaho, 2024.**

| 2024 Crop Year*      |              |                     |         |           |                 |              |               |                    |                   |         |                |       |              |
|----------------------|--------------|---------------------|---------|-----------|-----------------|--------------|---------------|--------------------|-------------------|---------|----------------|-------|--------------|
| Variety or Selection | 2-Year Yield | North Idaho Average | Genesee | Ferdinand | 100 Seed Weight | Plant Height | Canopy Height | Plant Height Index | Chickpea Size (%) |         |                |       | Seed Protein |
|                      |              |                     |         |           |                 |              |               |                    |                   |         |                |       |              |
|                      |              |                     |         |           |                 |              |               |                    | ----- lb/A -----  | (grams) | -- (inches) -- | (0-1) |              |
| MT Bridger           |              | 1,660               | 1,835   | 1,485     | 36.1            | 18           | 17            | 0.91               | <1                | 30      | 52             | 17    | 21.2         |
| CDC Frontier         | 1,640        | 1,574               | 1,583   | 1,565     | 33.8            | 17           | 15            | 0.90               | <1                | 22      | 61             | 17    | 21.2         |
| Billybeans           | 1,625        | 1,557               | 1,558   | 1,555     | 27.7            | 18           | 15            | 0.85               | <1                | 3       | 36             | 61    | 21.2         |
| CDC Orion            | 1,501        | 1,544               | 1,578   | 1,511     | 40.9            | 16           | 14            | 0.93               | 5                 | 59      | 31             | 5     | 19.2         |
| NSSCX04              | 1,437        | 1,523               | 1,635   | 1,373     | 42.5            | 17           | 15            | 0.90               | 6                 | 57      | 28             | 9     | 21.8         |
| NSSCX01              | 1,417        | 1,471               | 1,590   | 1,353     | 42.7            | 16           | 15            | 0.93               | 5                 | 53      | 34             | 8     | 21.8         |
| CDC Palmer           | 1,498        | 1,456               | 1,461   | 1,451     | 35.8            | 15           | 14            | 0.95               | <1                | 34      | 48             | 17    | 20.0         |
| CDC Leader           | 1,424        | 1,371               | 1,377   | 1,366     | 36.4            | 15           | 14            | 0.93               | <1                | 39      | 49             | 11    | 20.3         |
| ND Crown             |              | 1,360               | 1,445   | 1,274     | 37.9            | 20           | 18            | 0.87               | 1                 | 52      | 36             | 11    | 22.0         |
| Kasin                | 1,474        | 1,359               | 1,428   | 1,291     | 28.2            | 20           | 18            | 0.89               | <1                | 2       | 24             | 74    | 21.8         |
| Nash                 | 1,306        | 1,359               | 1,517   | 1,201     | 44.1            | 17           | 15            | 0.87               | 25                | 57      | 11             | 7     | 22.4         |
| Sawyer               | 1,387        | 1,354               | 1,363   | 1,345     | 39.3            | 16           | 15            | 0.91               | 3                 | 42      | 46             | 9     | 21.5         |
| CA17900020C          | 1,245        | 1,333               | 1,493   | 1,173     | 43.7            | 18           | 16            | 0.87               | 10                | 62      | 21             | 7     | 21.7         |
| CA15940057C          | 1,255        | 1,306               | 1,427   | 1,186     | 44.4            | 17           | 15            | 0.89               | 21                | 63      | 12             | 4     | 22.5         |
| New Hope             | 1,224        | 1,277               | 1,310   | 1,243     | 36.8            | 20           | 18            | 0.90               | 1                 | 38      | 47             | 14    | 22.0         |
| CA13900162C          | 1,313        | 1,262               | 1,376   | 1,148     | 42.8            | 17           | 15            | 0.86               | 14                | 63      | 16             | 6     | 21.1         |
| Sierra               | 1,163        | 1,125               | 1,229   | 1,022     | 42.9            | 16           | 15            | 0.89               | 8                 | 65      | 22             | 5     | 21.2         |
| Average              | 1,392        | 1,403               | 1,482   | 1,321     | 38.7            | 17           | 15            | 0.90               | 6                 | 44      | 34             | 16    | 21.4         |
| LSD (0.05)           | 114          | 158                 | 124     | 194       | 2.3             | 1            | 1             | 0.06               | 3                 | 7       | 5              | 6     | 0.5          |
| CV (%)               | 11.7         | 11.3                | 5.9     | 10.1      | 6.0             | 5.4          | 5.0           | 6.2                | 45.2              | 16.3    | 15.8           | 38.2  | 2.6          |

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

Note: 3-year average yield is not available since the 2022 Ferdinand trial was lost to hail damage.