

2021 Montana Spring Wheat Variety Performance Evaluations

MONTANA COUNTIES



SPRING WHEAT VARIETY PERFORMANCE SUMMARY IN MONTANA

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INTRODUCTION

The agronomic characteristics of spring wheat varieties evaluated by the Montana Agricultural Experiment Station are compared in this publication with other varieties commonly grown in the state. The objective of this summary is to help farmers select the varieties which will perform best in their area. Data from 2018-2021 is provided for each of the testing sites. Data for varieties grown in previous years can be found on this website:

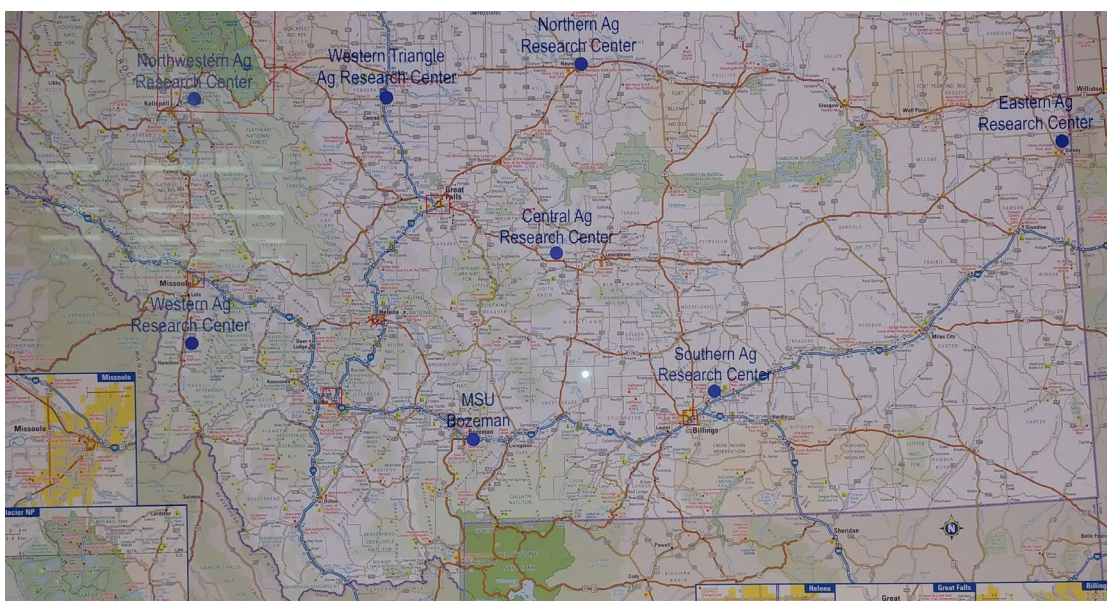
<http://plantsciences.montana.edu/crops/index.html>.

The map on the cover shows the districts in the state for purposes of reference for specific areas of adaptation. A brief description is given which may include a variety's particular advantages or disadvantages. The information was extracted from data collected and analyzed from the Advanced Spring Wheat nursery. These reports are prepared by research personnel of the Montana Agricultural Experiment Station.

VARIETY TESTING PROCEDURES

Locations

Typically, the Advanced Spring Wheat nursery is planted at 8 Montana sites; including Bozeman (dryland), Kalispell (NWARC : dryland), Havre (NARC : dryland), Sidney (EARC : dryland and irrigated), Huntley (SARC : dryland), Moccasin (CARC : dryland) and Conrad (WTARC : dryland).



Experimental Design and Data Collection

Varieties currently recommended, widely grown, or recently released are evaluated for agronomic performance in the Advanced Spring Wheat nursery. Also evaluated in these nurseries are experimental breeding lines tested against the check varieties

Agronomic data collected throughout the growing season includes heading date, plant height, lodging, disease and insect reactions. Experimental plots are trimmed, measured and harvested with small plot combines. The grain is weighed for yield and test weight.

One trait important to wheat growers is resistance to the wheat stem sawfly. The major mode of resistance is a solid versus hollow stemmed variety. To evaluate this trait we cut several stems of each variety and score them on a scale of 1=hollow, 2=2/5 solid, 3=3/5 solid, 4=4/5 solid and 5=solid. The cuts are made in the center of each internode, so there are 5 scores per stem. The five scores are added up to get a total number ranging from 5=very hollow up to 25=very solid.

Entries are submitted to the Cereal Quality Lab at MSU, Bozeman for protein, milling, baking and Asian noodle quality evaluation as needed.

Data is analyzed and summarized for each location and overall comparisons are made to determine which varieties and/or experimental lines look promising for Montana producers. When sufficient data is collected and analyzed, promising experimental lines are submitted to the MAES wheat variety release committee.

**2018-2021 OVERALL AVERAGE OF GRAIN YIELD, TEST WEIGHT AND PROTEIN CONTENT FOR THE
ADVANCED SPRING WHEAT NURSERY GROWN UNDER RAIN-FED CONDITION**

| ID | YIELD | | | | TEST WEIGHT | | | | PROTEIN | | | |
|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | (BU/AC) | | | | (LB/BU) | | | | (%) | | | |
| | 2018-2021 | 2019-2021 | 2020-2021 | 2021 | 2018-2021 | 2019-2021 | 2020-2021 | 2021 | 2018-2021 | 2019-2021 | 2020-2021 | 2021 |
| DAGMAR | 63.4 | 58.6 | 57.2 | 43.9 | 61.2 | 61.2 | 61.0 | 59.7 | 15.2 | 15.0 | 15.7 | 16.0 |
| VIDA | 63.0 | 57.8 | 56.9 | 41.9 | 60.2 | 60.2 | 59.7 | 58.5 | 14.3 | 14.2 | 14.9 | 15.0 |
| NS PRESSER CLP | 62.9 | 57.2 | 56.5 | 42.4 | 59.0 | 59.3 | 58.5 | 57.7 | 14.6 | 14.5 | 15.4 | 15.4 |
| SY ROCKFORD | 61.5 | 56.8 | 55.2 | 41.5 | 59.6 | 59.3 | 59.1 | 57.2 | 14.6 | 14.7 | 15.3 | 15.7 |
| WB 9719 | 61.3 | 56.5 | 53.2 | 39.3 | 63.0 | 63.2 | 62.2 | 60.8 | 14.4 | 14.2 | 15.0 | 15.3 |
| MT SIDNEY | 61.3 | 54.7 | 54.5 | 41.8 | 61.1 | 60.7 | 60.5 | 58.5 | 14.7 | 14.8 | 15.3 | 15.7 |
| LANNING | 59.4 | 54.5 | 52.5 | 40.7 | 60.3 | 60.2 | 59.7 | 57.8 | 15.3 | 15.1 | 15.9 | 15.8 |
| DUCLAIR | 59.0 | 52.8 | 51.6 | 37.2 | 59.8 | 59.5 | 59.0 | 57.2 | 14.9 | 14.9 | 15.3 | 15.8 |
| SY LONGMIRE | 58.9 | 53.2 | 50.8 | 38.2 | 61.2 | 61.3 | 60.6 | 59.0 | 15.0 | 14.9 | 15.6 | 15.9 |
| WB 9879 CLP | 58.8 | 55.0 | 51.6 | 39.9 | 60.4 | 60.2 | 60.1 | 58.4 | 15.2 | 15.1 | 15.8 | 15.9 |
| REEDER | 57.9 | 52.6 | 51.4 | 39.5 | 60.8 | 60.9 | 60.6 | 59.1 | 15.0 | 14.9 | 15.5 | 15.6 |
| WB 9590 | 57.8 | 54.1 | 50.0 | 38.7 | 61.1 | 61.2 | 60.8 | 59.2 | 15.3 | 15.2 | 15.8 | 16.1 |
| CHOTEAU | 57.7 | 53.0 | 51.2 | 38.4 | 60.3 | 60.0 | 59.8 | 58.1 | 15.0 | 14.9 | 15.5 | 15.7 |
| WB GUNNISON | 57.3 | 52.5 | 49.7 | 38.3 | 61.2 | 61.2 | 60.7 | 59.3 | 14.2 | 14.1 | 14.9 | 15.2 |
| SY INGMAR | 57.1 | 53.4 | 51.7 | 38.4 | 61.0 | 60.9 | 60.4 | 58.4 | 15.4 | 15.3 | 15.9 | 16.5 |
| SY 611 CL2 | 56.8 | 51.5 | 50.3 | 38.0 | 61.7 | 61.8 | 60.9 | 59.2 | 15.0 | 14.9 | 15.5 | 15.8 |
| CORBIN | 56.1 | 51.8 | 48.8 | 38.0 | 61.0 | 60.9 | 60.7 | 59.3 | 14.9 | 14.8 | 15.3 | 15.7 |
| SY McCLOUD | 56.1 | 52.3 | 50.7 | 39.0 | 62.1 | 62.0 | 61.7 | 60.0 | 15.6 | 15.4 | 15.7 | 16.0 |
| MCNEAL | 55.5 | 50.1 | 49.3 | 35.0 | 59.7 | 59.7 | 59.2 | 57.9 | 14.9 | 14.6 | 15.7 | 15.8 |
| EGAN | 54.8 | 50.2 | 48.9 | 37.0 | 59.1 | 58.9 | 58.5 | 57.0 | 16.4 | 16.0 | 16.9 | 17.1 |
| MT 1809 | | 60.1 | 58.1 | 42.0 | | 59.7 | 59.4 | 57.7 | | 14.8 | 15.6 | 15.7 |
| MT 1855 | | 58.0 | 54.4 | 41.6 | | 60.0 | 59.5 | 58.1 | | 14.9 | 15.6 | 15.9 |
| MT 1939 | | | 58.3 | 46.6 | | | 60.3 | 58.3 | | | 14.9 | 15.2 |
| MT 1938 | | | 57.1 | 42.6 | | | 59.9 | 58.2 | | | 15.3 | 15.7 |
| MT 1934 | | | 56.0 | 44.0 | | | 60.0 | 58.4 | | | 15.1 | 15.6 |
| MT 1931 | | | 55.9 | 44.7 | | | 60.0 | 58.3 | | | 15.3 | 15.4 |
| MT 1904 | | | 55.5 | 41.9 | | | 61.4 | 60.1 | | | 15.2 | 15.8 |
| MT 1927 | | | 53.9 | 40.8 | | | 58.1 | 55.9 | | | 15.9 | 16.3 |
| MT 1951 | | | 52.9 | 38.9 | | | 57.1 | 55.2 | | | 16.5 | 16.8 |
| LCS BUSTER | | | 52.8 | 38.1 | | | 57.6 | 56.4 | | | 14.1 | 14.5 |
| MS RANCHERO | | | 52.2 | 40.6 | | | 60.1 | 58.6 | | | 14.8 | 15.2 |
| WB 9516 | | | | 42.1 | | | | 60.2 | | | | 15.0 |
| LCS ASCENT | | | | 41.9 | | | | 59.5 | | | | 15.5 |
| BZ917-277 | | | | 41.5 | | | | 59.0 | | | | 15.7 |
| BZ917-252 | | | | 40.4 | | | | 55.2 | | | | 16.1 |
| 509-2 | | | | 40.3 | | | | 58.3 | | | | 15.8 |
| LNR 1713 | | | | 39.5 | | | | 58.6 | | | | 15.4 |
| AP GUNSMOKE CL2 | | | | 37.9 | | | | 57.9 | | | | 16.6 |
| MS COBRA | | | | 37.5 | | | | 59.2 | | | | 16.0 |
| AP SMITH | | | | 37.0 | | | | 57.7 | | | | 16.2 |
| AAC CONCORD | | | | 36.8 | | | | 58.3 | | | | 16.1 |
| THATCHER | | | | 30.5 | | | | 57.2 | | | | 16.1 |
| MEAN | 58.8 | 54.4 | 53.2 | 40.2 | 60.7 | 60.6 | 59.9 | 58.4 | 15.0 | 14.9 | 15.5 | 15.7 |
| C.V. | 5.0 | 5.5 | 5.7 | 7.8 | 0.7 | 0.7 | 0.9 | 1.6 | 1.8 | 2.0 | 2.2 | 3.2 |
| F-VALUE(LINE) | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| LSD(0.05) | 3.4 | 3.8 | 3.8 | 3.5 | 0.5 | 0.5 | 0.7 | 1.1 | 0.3 | 0.4 | 0.4 | 0.6 |

1) **bold** : highest or earliest value within a column, **bold** : equal value to highest or earliest value within a column based LSD(0.05)

2) Kalispell's 2018 and 2020 data was excluded, 3) Huntley's 2019 data was excluded due to hail damage

4) Conrad's 2020 data was excluded

**2018-2021 OVERALL AVERAGE OF GRAIN YIELD, TEST WEIGHT AND PROTEIN CONTENT FOR THE
ADVANCED SPRING WHEAT NURSERY GROWN UNDER IRRIGATED / HIGH RAINFALL CONDITION**

| ID | YIELD | | | | TEST WEIGHT | | | | PROTEIN | | | |
|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | (BU/AC) | | | | (LB/BU) | | | | (%) | | | |
| | 2018-2021 | 2019-2021 | 2020-2021 | 2021 | 2018-2021 | 2019-2021 | 2020-2021 | 2021 | 2018-2021 | 2019-2021 | 2020-2021 | 2021 |
| SY 611 CL2 | 92.4 | 82.0 | 83.9 | 73.9 | 63.8 | 62.9 | 63.8 | 61.1 | 14.9 | 13.8 | 14.6 | 12.4 |
| WB 9719 | 91.4 | 77.7 | 83.0 | 84.5 | 65.6 | 64.3 | 65.9 | 63.4 | 14.6 | 13.8 | 14.2 | 12.2 |
| VIDA | 90.5 | 80.9 | 85.8 | 85.2 | 62.6 | 61.5 | 63.3 | 62.4 | 14.6 | 13.5 | 14.1 | 12.3 |
| SY ROCKFORD | 89.6 | 80.5 | 82.1 | 85.8 | 62.0 | 60.3 | 62.7 | 60.3 | 14.5 | 14.0 | 14.2 | 12.8 |
| MT SIDNEY | 89.6 | 82.8 | 82.9 | 77.8 | 63.6 | 61.9 | 64.0 | 61.1 | 14.9 | 14.0 | 14.3 | 12.8 |
| SY LONGMIRE | 89.6 | 80.6 | 84.5 | 87.8 | 63.2 | 62.5 | 63.6 | 61.1 | 15.0 | 13.8 | 14.4 | 12.7 |
| DAGMAR | 89.5 | 77.7 | 84.7 | 77.0 | 62.9 | 61.6 | 63.5 | 61.4 | 15.9 | 14.2 | 15.5 | 13.4 |
| SY INGMAR | 88.8 | 76.8 | 81.8 | 75.9 | 63.7 | 62.5 | 63.9 | 62.0 | 15.2 | 14.5 | 14.9 | 13.0 |
| REEDER | 88.6 | 79.0 | 83.0 | 93.3 | 62.9 | 62.1 | 63.2 | 61.5 | 15.3 | 14.0 | 14.9 | 13.1 |
| LANNING | 87.2 | 78.3 | 80.2 | 78.2 | 61.7 | 60.9 | 61.6 | 59.9 | 15.8 | 14.6 | 15.7 | 12.9 |
| WB 9590 | 86.0 | 78.4 | 78.9 | 76.3 | 62.8 | 61.3 | 63.2 | 62.1 | 15.5 | 14.5 | 15.0 | 12.7 |
| NS PRESSER CLP | 83.8 | 84.3 | 83.0 | 84.6 | 61.7 | 61.1 | 62.7 | 61.4 | 14.4 | 13.4 | 13.9 | 11.9 |
| SY McCLOUD | 82.9 | 75.5 | 80.0 | 81.1 | 64.3 | 63.0 | 64.8 | 62.2 | 15.7 | 14.4 | 15.3 | 13.1 |
| DUCLAIR | 81.7 | 75.8 | 75.1 | 77.2 | 61.8 | 60.6 | 61.9 | 60.7 | 14.9 | 13.7 | 14.7 | 12.7 |
| MCNEAL | 81.0 | 75.0 | 73.3 | 83.2 | 61.7 | 61.0 | 61.7 | 60.1 | 15.6 | 14.3 | 15.5 | 12.9 |
| CHOTEAU | 79.5 | 69.8 | 75.6 | 82.2 | 62.0 | 60.8 | 62.5 | 61.1 | 15.1 | 13.9 | 15.0 | 12.5 |
| WB 9879 CLP | 79.0 | 70.3 | 75.1 | 80.4 | 62.2 | 60.9 | 63.0 | 61.9 | 15.4 | 14.3 | 15.1 | 12.7 |
| WB GUNNISON | 78.1 | 74.1 | 77.6 | 81.0 | 63.3 | 62.3 | 63.9 | 62.3 | 14.4 | 13.3 | 13.9 | 12.2 |
| CORBIN | 77.4 | 74.0 | 74.1 | 77.4 | 63.1 | 61.8 | 63.7 | 61.6 | 15.3 | 13.8 | 15.0 | 12.7 |
| EGAN | 77.1 | 68.9 | 70.4 | 72.5 | 61.2 | 60.4 | 61.0 | 59.9 | 16.2 | 15.4 | 16.4 | 13.5 |
| MT 1809 | | 82.9 | 86.9 | 85.0 | | 61.0 | 63.0 | 61.1 | | 13.9 | 14.6 | 13.0 |
| MT 1855 | | 82.6 | 82.5 | 85.2 | | 61.7 | 62.8 | 62.5 | | 13.7 | 14.4 | 12.4 |
| MT 1934 | | | 84.9 | 84.4 | | | 62.3 | 60.9 | | | 15.1 | 12.0 |
| MS RANCHERO | | | 84.2 | 81.0 | | | 62.9 | 59.4 | | | 14.0 | 12.7 |
| MT 1931 | | | 83.8 | 85.0 | | | 62.2 | 60.5 | | | 15.5 | 12.7 |
| LCS BUSTER | | | 82.8 | 71.1 | | | 61.2 | 59.7 | | | 12.9 | 12.1 |
| MT 1939 | | | 82.3 | 72.8 | | | 62.6 | 60.3 | | | 14.5 | 12.3 |
| MT 1938 | | | 81.9 | 86.4 | | | 62.8 | 60.8 | | | 15.1 | 12.4 |
| MT 1927 | | | 80.8 | 92.0 | | | 61.6 | 59.0 | | | 14.8 | 13.0 |
| MT 1951 | | | 78.2 | 81.6 | | | 59.6 | 59.3 | | | 16.5 | 14.7 |
| MT 1904 | | | 75.7 | 80.0 | | | 64.0 | 62.7 | | | 13.8 | 12.1 |
| WB 9516 | | | | 93.9 | | | | 63.2 | | | | 13.2 |
| BZ917-277 | | | | 90.9 | | | | 60.9 | | | | 12.7 |
| LCS ASCENT | | | | 86.9 | | | | 62.1 | | | | 12.2 |
| AAC CONCORD | | | | 82.7 | | | | 61.0 | | | | 13.7 |
| AP SMITH | | | | 82.6 | | | | 61.5 | | | | 13.8 |
| BZ917-252 | | | | 80.8 | | | | 59.8 | | | | 12.6 |
| MS COBRA | | | | 80.4 | | | | 60.2 | | | | 13.6 |
| LNR 1713 | | | | 77.6 | | | | 61.1 | | | | 12.2 |
| AP GUNSMOKE CL2 | | | | 76.8 | | | | 60.8 | | | | 12.4 |
| 509-2 | | | | 75.7 | | | | 61.3 | | | | 11.5 |
| THATCHER | | | | 73.0 | | | | 60.5 | | | | 12.9 |
| MEAN | 85.2 | 77.6 | 80.6 | 81.4 | 62.8 | 61.6 | 62.8 | 61.1 | 15.1 | 14.0 | 14.8 | 12.7 |
| C.V. | 5.6 | 5.1 | 7.4 | 10.3 | 1.0 | 0.8 | 1.2 | 1.9 | 2.5 | 2.6 | 3.4 | 6.1 |
| F-VALUE(LINE) | <0.001 | <0.05 | ns | ns | <0.001 | <0.001 | <0.001 | ns | <0.001 | <0.01 | <0.001 | ns |
| LSD(0.05) | 6.7 | 8.2 | - | - | 0.9 | 1.0 | 1.6 | - | 0.5 | 0.8 | 1.0 | - |

1) **bold** : highest or earliest value within a column, bold : equal value to highest or earliest value within a column based LSD(0.05)

2) Kalispell's 2018 and 2020 data was excluded, 3) Huntley's 2019 data was excluded due to hail damage

4) Conrad's 2020 data was excluded

**2018-2021 OVERALL AVERAGE OF GRAIN YIELD, TEST WEIGHT AND PROTEIN CONTENT
FOR THE ADVANCED SPRING WHEAT NURSERY GROWN ACROSS MONTANA (COMBINED)**

| ID | YIELD | | | | TEST WEIGHT | | | | PROTEIN | | | |
|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | (BU/AC) | | | | (LB/BU) | | | | (%) | | | |
| | 2018-2021 | 2019-2021 | 2020-2021 | 2021 | 2018-2021 | 2019-2021 | 2020-2021 | 2021 | 2018-2021 | 2019-2021 | 2020-2021 | 2021 |
| DAGMAR | 67.1 | 64.0 | 61.8 | 52.2 | 61.5 | 61.3 | 61.4 | 60.1 | 15.3 | 14.8 | 15.7 | 15.4 |
| VIDA | 66.9 | 64.4 | 61.8 | 52.7 | 60.5 | 60.5 | 60.3 | 59.5 | 14.3 | 14.0 | 14.8 | 14.3 |
| NS PRESSER CLP | 65.9 | 64.9 | 60.9 | 53.0 | 59.4 | 59.8 | 59.2 | 58.6 | 14.6 | 14.2 | 15.1 | 14.5 |
| WB 9719 | 65.6 | 62.5 | 58.2 | 50.6 | 63.4 | 63.5 | 62.9 | 61.4 | 14.4 | 14.1 | 14.9 | 14.5 |
| SY ROCKFORD | 65.5 | 63.6 | 59.7 | 52.6 | 60.0 | 59.6 | 59.7 | 58.0 | 14.6 | 14.5 | 15.2 | 15.0 |
| MT SIDNEY | 65.3 | 62.7 | 59.2 | 50.8 | 61.5 | 61.0 | 61.1 | 59.1 | 14.8 | 14.6 | 15.2 | 15.0 |
| LANNING | 63.4 | 61.3 | 57.1 | 50.1 | 60.5 | 60.4 | 60.0 | 58.3 | 15.4 | 15.0 | 15.8 | 15.1 |
| SY LONGMIRE | 63.2 | 61.0 | 56.5 | 50.6 | 61.5 | 61.6 | 61.1 | 59.5 | 15.0 | 14.6 | 15.4 | 15.1 |
| REEDER | 62.3 | 60.2 | 56.7 | 53.0 | 61.1 | 61.3 | 61.0 | 59.7 | 15.0 | 14.6 | 15.4 | 14.9 |
| DUCLAIR | 62.3 | 59.4 | 55.5 | 47.2 | 60.1 | 59.8 | 59.5 | 58.1 | 14.9 | 14.6 | 15.2 | 15.0 |
| SY 611 CL2 | 61.9 | 60.2 | 55.9 | 47.0 | 62.0 | 62.1 | 61.4 | 59.7 | 15.0 | 14.6 | 15.4 | 14.9 |
| WB 9590 | 61.8 | 61.0 | 54.8 | 48.1 | 61.4 | 61.2 | 61.2 | 59.9 | 15.3 | 15.0 | 15.6 | 15.3 |
| WB 9879 CLP | 61.7 | 59.4 | 55.5 | 50.0 | 60.7 | 60.4 | 60.6 | 59.3 | 15.2 | 14.8 | 15.7 | 15.1 |
| SY INGMAR | 61.6 | 60.1 | 56.7 | 47.7 | 61.4 | 61.4 | 61.0 | 59.3 | 15.4 | 15.1 | 15.8 | 15.6 |
| CHOTEAU | 60.8 | 57.8 | 55.2 | 49.3 | 60.5 | 60.2 | 60.3 | 58.8 | 15.0 | 14.6 | 15.4 | 14.9 |
| WB GUNNISON | 60.3 | 58.7 | 54.4 | 48.9 | 61.5 | 61.5 | 61.2 | 60.0 | 14.2 | 13.9 | 14.7 | 14.4 |
| SY McCLOUD | 59.9 | 58.9 | 55.6 | 49.5 | 62.4 | 62.3 | 62.2 | 60.6 | 15.6 | 15.1 | 15.7 | 15.3 |
| CORBIN | 59.2 | 58.1 | 53.0 | 47.8 | 61.3 | 61.2 | 61.2 | 59.9 | 15.0 | 14.5 | 15.3 | 15.0 |
| MCNEAL | 59.1 | 57.2 | 53.3 | 47.0 | 60.0 | 60.0 | 59.6 | 58.5 | 15.0 | 14.5 | 15.6 | 15.1 |
| EGAN | 58.0 | 55.5 | 52.5 | 45.9 | 59.4 | 59.3 | 58.9 | 57.7 | 16.3 | 15.8 | 16.8 | 16.2 |
| MT 1809 | | 66.6 | 62.9 | 52.7 | | 60.1 | 60.0 | 58.5 | | 14.5 | 15.4 | 15.0 |
| MT 1855 | | 65.0 | 59.1 | 52.5 | | 60.4 | 60.1 | 59.2 | | 14.6 | 15.4 | 15.0 |
| MT 1939 | | | 62.3 | 53.1 | | | 60.7 | 58.8 | | | 14.9 | 14.5 |
| MT 1938 | | | 61.2 | 53.5 | | | 60.4 | 58.8 | | | 15.3 | 14.9 |
| MT 1934 | | | 60.8 | 54.1 | | | 60.4 | 59.0 | | | 15.1 | 14.7 |
| MT 1931 | | | 60.6 | 54.7 | | | 60.4 | 58.8 | | | 15.3 | 14.7 |
| MT 1904 | | | 58.9 | 51.4 | | | 61.8 | 60.7 | | | 15.0 | 14.8 |
| MT 1927 | | | 58.4 | 53.6 | | | 58.7 | 56.6 | | | 15.7 | 15.4 |
| LCS BUSTER | | | 57.8 | 46.4 | | | 58.2 | 57.2 | | | 13.9 | 13.9 |
| MS RANCHERO | | | 57.6 | 50.7 | | | 60.5 | 58.8 | | | 14.7 | 14.6 |
| MT 1951 | | | 57.1 | 49.6 | | | 57.5 | 56.2 | | | 16.5 | 16.3 |
| WB 9516 | | | | 55.0 | | | | 60.9 | | | | 14.5 |
| BZ917-277 | | | | 53.9 | | | | 59.5 | | | | 15.0 |
| LCS ASCENT | | | | 53.1 | | | | 60.1 | | | | 14.7 |
| BZ917-252 | | | | 50.5 | | | | 56.4 | | | | 15.2 |
| 509-2 | | | | 49.2 | | | | 59.0 | | | | 14.7 |
| LNR 1713 | | | | 49.0 | | | | 59.2 | | | | 14.6 |
| AP SMITH | | | | 48.4 | | | | 58.7 | | | | 15.6 |
| AAC CONCORD | | | | 48.3 | | | | 59.0 | | | | 15.5 |
| MS COBRA | | | | 48.2 | | | | 59.4 | | | | 15.4 |
| AP GUNSMOKE CL2 | | | | 47.6 | | | | 58.6 | | | | 15.6 |
| THATCHER | | | | 41.1 | | | | 58.0 | | | | 15.3 |
| MEAN | 50.5 | 57.8 | 61.0 | 62.6 | 61.0 | 60.9 | 60.4 | 59.1 | 15.0 | 14.6 | 15.3 | 15.0 |
| C.V. | 9.8 | 5.2 | 5.6 | 5 | 0.7 | 0.7 | 0.9 | 1.7 | 1.8 | 2.1 | 2.3 | 3.8 |
| F-VALUE(LINE) | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| LSD(0.05) | 4.8 | 3.4 | 3.6 | 3.3 | 0.5 | 0.5 | 0.6 | 1.0 | 0.3 | 0.3 | 0.4 | 0.6 |

1) **bold** : highest or earliest value within a column, bold : equal value to highest or earliest value within a column based LSD(0.05)

2) Kalispell's 2018 and 2020 data was excluded, 3) Huntley's 2019 data was excluded due to hail damage

4) Conrad's 2020 data was excluded

**2018-2021 OVERALL AVERAGE OF HEADING DATE, PLANT HEIGHT AND STEM SOLIDNESS
FOR THE ADVANCED SPRING WHEAT NURSERY GROWN ACROSS MONTANA**

| ID | HEADING DATE | | | | PLANT HEIGHT | | | | STEM SOLIDNESS (5-25) | | | |
|------------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|-----------------------|-------------|-------------|-------------|
| | (JULIAN) | | | | (INCHES) | | | | BOZEMAN ONLY | | | |
| | 2018-2021 | 2019-2021 | 2020-2021 | 2021 | 2018-2021 | 2019-2021 | 2020-2021 | 2021 | 2018-2021 | 2019-2021 | 2020-2021 | 2021 |
| DAGMAR | <u>173.7</u> | 175.3 | 171.4 | 173.4 | 30.5 | 29.3 | 28.9 | 27.4 | 18.5 | 18.9 | 21.0 | 19.7 |
| DUCLAIR | 173.8 | <u>175.2</u> | 171.5 | 173.5 | 29.8 | 29.2 | 28.2 | 27.3 | 20.0 | 20.1 | 20.9 | 20.0 |
| CORBIN | 174.1 | 175.4 | 171.8 | 173.1 | 29.9 | 28.8 | 27.7 | 27.1 | 13.1 | 13.8 | 13.9 | 12.9 |
| MT SIDNEY | 174.1 | 175.7 | 172.6 | 175.5 | 30.6 | 29.6 | 29.0 | 30.1 | 9.8 | 10.5 | 10.7 | 11.3 |
| SY McCLOUD | 174.2 | 175.6 | 172.2 | 173.9 | 29.4 | 28.6 | 27.6 | 26.6 | 9.2 | 9.5 | 9.0 | 7.7 |
| LANNING | 174.3 | 175.4 | 171.2 | 173.0 | 29.0 | 27.9 | 26.5 | 26.2 | 7.6 | 8.2 | 8.0 | 7.3 |
| WB 9590 | 174.4 | 175.9 | 172.3 | 173.3 | 26.3 | 25.1 | 24.3 | 23.7 | 9.2 | 9.1 | 9.0 | 8.1 |
| SY 611 CL2 | 175.1 | 176.5 | 173.1 | 174.1 | 27.7 | 26.7 | 26.0 | 25.2 | 9.1 | 9.6 | 9.4 | 7.9 |
| SY LONGMIRE | 175.7 | 176.9 | 173.7 | 175.0 | 28.9 | 28.4 | 27.4 | 26.5 | 19.5 | 20.1 | 20.3 | 21.1 |
| WB GUNNISON | 175.9 | 177.0 | 173.5 | 174.7 | 28.7 | 27.8 | 26.4 | 25.3 | 12.5 | 13.0 | 12.7 | 11.8 |
| SY INGMAR | 176.1 | 177.4 | 174.2 | 175.2 | 28.9 | 28.0 | 27.2 | 25.7 | 9.4 | 9.4 | 9.2 | 7.7 |
| CHOTEAU | 176.1 | 177.3 | 173.9 | 174.9 | 29.5 | 28.7 | 27.6 | 27.2 | 22.0 | 22.2 | 22.4 | 20.7 |
| REEDER | 176.3 | 177.9 | 173.8 | 174.9 | 31.4 | 30.0 | 28.7 | 27.7 | 7.9 | 8.3 | 8.0 | 7.8 |
| VIDA | 176.9 | 178.0 | 174.4 | 175.5 | 30.3 | 29.5 | 28.5 | 27.4 | 13.0 | 13.9 | 14.5 | 14.5 |
| WB 9879 CLP | 176.9 | 178.0 | 174.6 | 175.2 | 29.5 | 28.6 | 27.7 | 26.4 | 23.0 | 23.7 | 24.1 | 23.4 |
| EGAN | 177.2 | 178.2 | 175.1 | 175.8 | 30.1 | 29.1 | 28.1 | 27.3 | 8.2 | 8.3 | 8.2 | 7.8 |
| MCNEAL | 177.7 | 178.9 | 175.5 | 176.3 | 31.1 | 30.3 | 29.3 | 28.0 | 8.3 | 8.5 | 8.2 | 8.3 |
| WB 9719 | 177.8 | 179.1 | 175.7 | 176.2 | 28.5 | 27.5 | 26.4 | 25.5 | 7.6 | 7.8 | 7.0 | 6.4 |
| SY ROCKFORD | 177.8 | 179.3 | 175.8 | 177.0 | 30.0 | 28.9 | 27.9 | 26.6 | 8.9 | 9.5 | 8.7 | 8.1 |
| NS PRESSER CLP | 179.4 | 179.8 | 176.6 | 176.7 | 31.9 | 31.0 | 29.7 | 28.4 | 8.1 | 8.5 | 8.0 | 7.2 |
| MT 1809 | | 177.3 | 173.4 | 174.7 | | 29.2 | 27.8 | 26.6 | | 13.1 | 13.9 | 13.1 |
| MT 1855 | | 179.1 | 176.1 | 176.5 | | 31.8 | 30.2 | 28.5 | | 17.5 | 17.9 | 17.9 |
| MT 1931 | | | 170.9 | 172.7 | | | 27.5 | 27.0 | | | 8.8 | 7.1 |
| MS RANCHERO | | | 171.0 | 173.2 | | | 28.4 | 27.3 | | | 9.1 | 8.2 |
| MT 1934 | | | 171.4 | 173.4 | | | 28.4 | 27.8 | | | 17.7 | 15.6 |
| MT 1938 | | | 172.1 | 173.1 | | | 28.1 | 27.5 | | | 20.4 | 19.4 |
| MT 1939 | | | 172.9 | 174.3 | | | 27.4 | 27.6 | | | 21.4 | 19.7 |
| MT 1951 | | | 173.1 | 174.4 | | | 29.8 | 28.7 | | | 8.4 | 8.0 |
| MT 1904 | | | 175.1 | 175.8 | | | 28.2 | 27.4 | | | 23.5 | 22.3 |
| MT 1927 | | | 175.5 | 177.5 | | | 28.7 | 27.8 | | | 19.0 | 18.1 |
| LCS BUSTER | | | 178.4 | 177.9 | | | 27.4 | 25.8 | | | 18.6 | 20.0 |
| 509-2 | | | | 173.0 | | | | 25.7 | | | | 10.7 |
| LNR 1713 | | | | 173.6 | | | | 27.6 | | | | 7.5 |
| LCS ASCENT | | | | 173.6 | | | | 28.0 | | | | 7.2 |
| AP GUNSMOKE CL2 | | | | 174.0 | | | | 25.7 | | | | 7.2 |
| MS COBRA | | | | 174.3 | | | | 27.5 | | | | 6.7 |
| AAC CONCORD | | | | 175.1 | | | | 28.4 | | | | 24.1 |
| WB 9516 | | | | 175.4 | | | | 25.9 | | | | 8.6 |
| AP SMITH | | | | 176.0 | | | | 24.8 | | | | 8.6 |
| BZ917-252 | | | | 176.1 | | | | 25.8 | | | | 11.1 |
| BZ917-277 | | | | 176.1 | | | | 26.9 | | | | 12.7 |
| THATCHER | | | | 177.7 | | | | 32.2 | | | | 6.0 |
| MEAN | 175.9 | 177.2 | 173.6 | 174.3 | 29.6 | 28.8 | 27.9 | 27.1 | 12.2 | 12.9 | 13.9 | 13.3 |
| C.V. | 0.3 | 0.3 | 0.4 | 0.7 | 2.2 | 2.5 | 3.3 | 5.8 | 9.6 | 9.9 | 7.8 | 8.6 |
| F-VALUE(LINE) | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| LSD(0.05) | 0.6 | 0.6 | 0.7 | 1.3 | 0.7 | 0.7 | 1.0 | 1.5 | 1.7 | 2.1 | 2.2 | 1.8 |

1) **bold** : highest or earliest value within a column, **bold** : equal value to highest or earliest value within a column based LSD(0.05)
2) Kalispell's 2018 and 2020 data was excluded, 3) Huntley: 2019 data was excluded due to hail damage, no heading data for 2021
4) Conrad: 2020 data was excluded, no heading data for 2021

**2018-2021 ADVANCED SPRING WHEAT NURSERY, KALISPELL (HIGH RAINFALL) : YIELD, TEST
WEIGHT AND PROTEIN
DISTRIC 1**

| ID | YIELD | | TEST WEIGHT | | PROTEIN | |
|--------------------|--------------------------|--------------|-------------|-------------|-------------|-------------|
| | (BU/AC) | | (LB/BU) | | (%) | |
| | 2019, 2021 ¹⁾ | 2021 | 2019, 2021 | 2021 | 2019, 2021 | 2021 |
| NS PRESSER CLP | 83.4 | 91.7 | 60.1 | 59.1 | 12.4 | 10.6 |
| MT SIDNEY | 80.4 | 87.9 | 60.2 | 59.0 | 13.3 | 11.9 |
| MT 1855 | 79.1 | 96.5 | 60.8 | 62.6 | 12.7 | 10.8 |
| MT 1809 | 76.4 | 102.0 | 59.6 | 59.3 | 12.7 | 11.8 |
| SY ROCKFORD | 73.6 | 103.0 | 58.6 | 58.1 | 13.5 | 11.6 |
| WB 9590 | 73.2 | 88.4 | 59.8 | 61.7 | 13.7 | 10.8 |
| SY 611 CL2 | 72.9 | 83.8 | 62.1 | 59.5 | 12.8 | 10.5 |
| VIDA | 72.0 | 95.2 | 60.2 | 61.2 | 12.4 | 11.2 |
| DUCLAIR | 72.0 | 91.8 | 59.7 | 60.2 | 12.7 | 10.9 |
| SY LONGMIRE | 71.4 | 107.1 | 61.6 | 59.4 | 12.9 | 11.2 |
| CORBIN | 71.1 | 98.7 | 60.5 | 59.9 | 12.3 | 10.2 |
| REEDER | 71.0 | 113.7 | 61.4 | 60.4 | 12.9 | 11.4 |
| MCNEAL | 70.9 | 105.3 | 60.4 | 59.3 | 12.9 | 10.1 |
| LANNING | 70.7 | 95.0 | 60.4 | 59.8 | 13.4 | 10.5 |
| WB GUNNISON | 70.6 | 96.0 | 61.2 | 60.7 | 12.4 | 10.6 |
| WB 9719 | 67.7 | 97.3 | 63.1 | 61.1 | 13.1 | 10.5 |
| SY INGMAR | 67.1 | 88.4 | 61.6 | 61.1 | 13.9 | 11.3 |
| DAGMAR | 67.0 | 80.0 | 60.2 | 59.4 | 12.7 | 12.0 |
| SY McCLOUD | 66.9 | 95.3 | 61.8 | 59.8 | 13.3 | 11.2 |
| THATCHER | 65.9 | 91.5 | 59.6 | 59.2 | 13.3 | 10.8 |
| WB 9879 CLP | 63.7 | 96.9 | 59.6 | 61.1 | 13.1 | 10.3 |
| CHOTEAU | 61.7 | 100.9 | 59.6 | 59.7 | 12.8 | 10.5 |
| EGAN | 61.5 | 84.5 | 59.7 | 59.4 | 14.5 | 10.3 |
| MT 1927 | | 119.1 | | 57.2 | | 10.9 |
| WB 9516 | | 114.5 | | 60.7 | | 12.6 |
| BZ917-277 | | 110.8 | | 58.1 | | 11.3 |
| AAC CONCORD | | 110.2 | | 59.3 | | 11.4 |
| MT 1938 | | 105.5 | | 59.0 | | 10.0 |
| MT 1951 | | 105.2 | | 60.2 | | 12.5 |
| LCS ASCENT | | 103.1 | | 59.8 | | 11.0 |
| LANNING/MT1319 | | 101.0 | | 59.8 | | 10.3 |
| MS COBRA | | 100.0 | | 56.8 | | 12.5 |
| MS RANCHERO | | 99.1 | | 56.6 | | 11.4 |
| AP SMITH | | 98.2 | | 60.4 | | 12.7 |
| MT 1904 | | 98.2 | | 60.8 | | 10.9 |
| BZ917-252 | | 96.6 | | 60.6 | | 9.9 |
| MT 1934 | | 95.6 | | 59.7 | | 9.7 |
| LNR 1713 | | 90.8 | | 58.9 | | 10.7 |
| AP GUNSMOKE CL2 | | 89.6 | | 59.2 | | 10.4 |
| MT 1542/MT 1338 | | 86.8 | | 59.3 | | 10.4 |
| LCS BUSTER | | 84.5 | | 59.3 | | 10.7 |
| MT 1939 | | 79.4 | | 58.9 | | 10.4 |
| 509-2 | | 77.9 | | 59.6 | | 10.0 |
| MEAN | 70.9 | 97.5 | 60.5 | 59.6 | 13.0 | 11.0 |
| C.V. | 8.0 | 6.7 | 0.7 | 0.7 | 4.1 | 4.6 |
| PROBABILITY (LINE) | ns | <0.001 | <0.001 | <0.001 | <0.05 | <0.001 |
| LSD(0.05) | - | 11.3 | 0.8 | 0.8 | 1.1 | 0.9 |

1) not planted in 2018, 2020

bold : highest or earliest value within a column

bold : equal value to highest or earliest value within a column based LSD(0.05)

2018-2021 ADVANCED SPRING WHEAT NURSERY,BOZEMAN (DRY):YIELD,TEST WEIGHT AND PROTEIN

DISTRIC 2

| ID | YIELD | | | | TEST WEIGHT | | | | PROTEIN | | | |
|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|--------------|
| | (BU/AC) | | | | (LB/BU) | | | | (%) | | | |
| | 2018-2021 | 2019-2021 | 2020-2021 | 2021 | 2018-2021 | 2019-2021 | 2020-2021 | 2021 | 2018-2021 | 2019-2021 | 2020-2021 | 2021 |
| VIDA | 92.8 | 84.5 | 80.9 | 60.8 | 59.9 | 59.4 | 59.4 | 59.6 | 14.4 | 14.5 | 14.4 | 14.1 |
| WB 9719 | 91.1 | 82.9 | 77.2 | 59.0 | 64.1 | 63.7 | 63.5 | 62.9 | 14.2 | 14.3 | 14.3 | 14.6 |
| SY ROCKFORD | 90.5 | 85.9 | 81.4 | 58.3 | 59.6 | 59.1 | 59.3 | 58.2 | 14.3 | 14.5 | 14.6 | 14.8 |
| DAGMAR | 88.9 | 83.7 | 81.0 | 62.7 | 61.3 | 60.9 | 61.3 | 60.8 | 15.4 | 15.3 | 15.4 | 15.8 |
| MT SIDNEY | 88.0 | 81.1 | 76.8 | 64.3 | 60.9 | 60.4 | 60.6 | 59.4 | 14.7 | 14.6 | 14.5 | 14.7 |
| NS PRESSER CLP | 87.9 | 82.3 | 79.0 | 58.7 | 58.9 | 58.4 | 58.3 | 58.6 | 14.9 | 15.0 | 15.1 | 15.3 |
| WB 9590 | 87.2 | 80.3 | 74.1 | 53.6 | 60.9 | 60.4 | 60.7 | 59.7 | 15.2 | 15.2 | 15.2 | 15.3 |
| DUCLAIR | 87.1 | 78.9 | 71.4 | 52.8 | 60.1 | 59.5 | 59.6 | 58.5 | 14.9 | 15.1 | 14.3 | 14.7 |
| LANNING | 85.1 | 80.8 | 76.5 | 58.3 | 60.9 | 60.3 | 60.4 | 59.2 | 15.5 | 15.5 | 15.3 | 15.6 |
| REEDER | 83.6 | 76.6 | 71.4 | 56.0 | 61.3 | 61.1 | 61.3 | 60.9 | 15.1 | 15.1 | 15.0 | 14.8 |
| SY INGMAR | 83.1 | 79.0 | 73.7 | 54.5 | 61.4 | 61.0 | 61.1 | 59.8 | 15.3 | 15.3 | 15.3 | 15.6 |
| WB 9879 CLP | 82.4 | 77.4 | 71.4 | 56.3 | 60.3 | 59.9 | 60.4 | 59.8 | 15.1 | 15.2 | 15.1 | 15.0 |
| SY LONGMIRE | 81.9 | 73.6 | 66.8 | 52.9 | 61.6 | 61.2 | 61.0 | 60.0 | 14.9 | 14.9 | 14.8 | 15.2 |
| SY McCLOUD | 81.8 | 78.3 | 74.7 | 58.0 | 62.4 | 62.0 | 62.5 | 61.9 | 15.2 | 15.0 | 14.6 | 14.2 |
| CHOTEAU | 80.7 | 74.3 | 70.1 | 55.0 | 60.5 | 59.9 | 60.6 | 59.4 | 14.9 | 14.8 | 14.5 | 14.6 |
| WB GUNNISON | 80.1 | 70.8 | 67.5 | 51.8 | 61.7 | 61.5 | 61.6 | 60.7 | 14.0 | 14.1 | 14.0 | 14.5 |
| CORBIN | 80.0 | 74.4 | 70.1 | 50.4 | 61.2 | 60.7 | 61.1 | 60.4 | 14.7 | 14.6 | 14.3 | 14.2 |
| SY 611 CL2 | 79.3 | 73.1 | 69.9 | 53.7 | 61.8 | 61.5 | 61.5 | 61.3 | 14.9 | 14.9 | 14.8 | 14.7 |
| EGAN | 77.6 | 73.3 | 69.1 | 54.0 | 59.9 | 59.4 | 59.4 | 58.8 | 16.8 | 16.5 | 16.3 | 16.4 |
| MCNEAL | 72.7 | 69.1 | 66.2 | 49.9 | 60.0 | 59.6 | 59.6 | 58.5 | 15.5 | 15.2 | 14.9 | 15.0 |
| MT 1855 | | 90.8 | 87.8 | 61.1 | | 60.4 | 60.4 | 60.2 | | 14.5 | 14.4 | 14.3 |
| MT 1809 | | 86.9 | 83.7 | 61.3 | | 58.8 | 58.8 | 58.4 | | 15.4 | 15.4 | 15.4 |
| MT 1939 | | | 82.6 | 65.8 | | | 61.4 | 60.4 | | | 14.4 | 14.4 |
| MT 1931 | | | 81.9 | 61.3 | | | 60.8 | 59.5 | | | 15.1 | 15.1 |
| MS RANCHERO | | | 81.7 | 60.1 | | | 60.2 | 59.1 | | | 14.3 | 14.9 |
| LCS BUSTER | | | 81.1 | 57.4 | | | 57.4 | 56.7 | | | 12.8 | 12.6 |
| MT 1934 | | | 80.0 | 62.9 | | | 60.1 | 59.4 | | | 15.0 | 15.8 |
| MT 1938 | | | 79.9 | 61.3 | | | 60.3 | 59.0 | | | 14.8 | 15.1 |
| MT 1904 | | | 78.5 | 58.1 | | | 61.3 | 61.2 | | | 14.8 | 15.2 |
| MT 1951 | | | 77.2 | 55.5 | | | 58.7 | 57.3 | | | 16.1 | 16.2 |
| MT 1927 | | | 74.9 | 57.2 | | | 59.0 | 57.9 | | | 15.0 | 15.2 |
| WB 9516 | | | | 59.5 | | | | 61.4 | | | | 13.9 |
| LNR 1713 | | | | 58.3 | | | | 59.3 | | | | 14.5 |
| BZ917-277 | | | | 57.9 | | | | 60.2 | | | | 15.2 |
| LCS ASCENT | | | | 57.9 | | | | 59.8 | | | | 15.1 |
| BZ917-252 | | | | 56.2 | | | | 55.7 | | | | 14.7 |
| 509-2 | | | | 56.1 | | | | 59.6 | | | | 14.7 |
| AP SMITH | | | | 54.8 | | | | 58.7 | | | | 15.7 |
| MS COBRA | | | | 54.4 | | | | 59.9 | | | | 15.6 |
| AP GUNSMOKE CL2 | | | | 53.2 | | | | 58.1 | | | | 15.8 |
| AAC CONCORD | | | | 51.5 | | | | 58.4 | | | | 15.7 |
| THATCHER | | | | 43.2 | | | | 57.8 | | | | 15.6 |
| MEAN | 84.1 | 79.0 | 76.1 | 57.1 | 60.9 | 60.4 | 60.3 | 59.6 | 15.0 | 15.0 | 14.8 | 15.0 |
| C.V. | 5.4 | 5.2 | 5.9 | 3.5 | 0.9 | 1.0 | 1.1 | 1 rep | 3.0 | 2.9 | 2.5 | 1 rep |
| PROBABILITY (LINE) | <0.001 | <0.001 | <0.01 | <0.001 | <0.001 | <0.001 | <0.001 | 1 rep | <0.001 | <0.001 | <0.001 | 1 rep |
| LSD(0.05) | 6.5 | 6.7 | 9.1 | 3.5 | 0.8 | 1.0 | 1.3 | 1 rep | 0.6 | 0.7 | 0.8 | 1 rep |

bold : highest or earliest value within a column

bold : equal value to highest or earliest value within a column based LSD(0.05)

2018-2021 ADVANCED SPRING WHEAT NURSERY, HUNTLEY (DRY) : YIELD, TEST WEIGHT AND PROTEIN

DISTRIC 3

| ID | YIELD | | | TEST WEIGHT | | | PROTEIN | | |
|---------------------|-----------------------------------|---------------|-------------|-----------------------------------|---------------|-------------|-----------------------------------|---------------|-------------|
| | (BU/AC) | | | (LB/BU) | | | (%) | | |
| | 2018, 2020, 2021 ¹⁾ | 2020- 2021 | 2021 | 2018, 2020, 2021 ¹⁾ | 2020- 2021 | 2021 | 2018, 2020, 2021 ¹⁾ | 2020- 2021 | 2021 |
| NS PRESSER CLP | 75.8 | 72.7 | 38.2 | 57.7 | 57.4 | 56.8 | 15.9 | 16.4 | 17.0 |
| MT SIDNEY | 74.8 | 70.0 | 40.4 | 61.6 | 60.5 | 58.5 | 15.5 | 15.9 | 16.7 |
| SY ROCKFORD | 73.6 | 68.9 | 40.8 | 60.0 | 59.0 | 56.6 | 15.6 | 16.0 | 17.0 |
| DUCLAIR | 73.1 | 69.8 | 47.1 | 59.9 | 58.8 | 55.8 | 15.6 | 16.2 | 17.1 |
| VIDA | 72.0 | 70.5 | 42.8 | 60.2 | 59.5 | 57.2 | 15.3 | 15.8 | 16.7 |
| SY LONGMIRE | 70.8 | 67.5 | 43.6 | 60.7 | 60.0 | 57.0 | 15.9 | 16.3 | 17.5 |
| DAGMAR | 70.1 | 68.6 | 44.1 | 60.6 | 60.2 | 58.3 | 16.4 | 16.8 | 17.6 |
| CHOTEAU | 69.4 | 64.9 | 38.7 | 60.5 | 59.6 | 57.6 | 16.0 | 16.3 | 17.3 |
| MCNEAL | 68.1 | 64.0 | 34.7 | 59.8 | 59.5 | 57.4 | 16.7 | 17.2 | 18.3 |
| LANNING | 66.9 | 63.4 | 45.8 | 59.9 | 59.2 | 56.6 | 16.6 | 17.1 | 17.3 |
| WB 9879 CLP | 66.7 | 64.1 | 39.5 | 60.5 | 59.8 | 57.8 | 16.1 | 16.4 | 17.3 |
| EGAN | 65.7 | 62.9 | 36.3 | 59.2 | 58.6 | 56.1 | 18.0 | 18.4 | 19.5 |
| SY INGMAR | 65.4 | 64.1 | 40.3 | 60.2 | 59.2 | 55.4 | 16.5 | 17.0 | 18.5 |
| WB 9719 | 64.6 | 66.9 | 38.7 | 61.9 | 61.2 | 57.5 | 15.3 | 15.8 | 17.0 |
| SY 611 CL2 | 64.4 | 64.6 | 41.6 | 60.5 | 59.6 | 55.8 | 16.0 | 16.4 | 17.3 |
| REEDER | 64.0 | 61.9 | 41.5 | 60.1 | 60.2 | 58.0 | 16.0 | 16.3 | 17.0 |
| CORBIN | 63.2 | 60.5 | 36.0 | 61.2 | 60.6 | 58.5 | 15.8 | 16.1 | 17.1 |
| SY McCLOUD | 62.3 | 58.5 | 36.3 | 61.8 | 60.8 | 58.2 | 16.4 | 16.8 | 17.9 |
| WB GUNNISON | 61.8 | 60.8 | 37.9 | 60.7 | 60.1 | 57.1 | 15.3 | 15.7 | 17.3 |
| WB 9590 | 60.4 | 56.6 | 35.3 | 60.2 | 59.5 | 56.9 | 16.3 | 16.7 | 18.2 |
| MT 1939 | | 73.7 | 50.7 | | 60.2 | 57.7 | | 15.6 | 16.3 |
| MT 1927 | | 69.9 | 42.5 | | 58.3 | 55.6 | | 16.6 | 17.5 |
| MT 1809 | | 69.2 | 41.9 | | 58.8 | 56.0 | | 16.4 | 17.4 |
| MT 1904 | | 68.6 | 40.8 | | 61.2 | 59.7 | | 15.8 | 17.2 |
| MT 1938 | | 68.5 | 43.9 | | 59.3 | 56.9 | | 16.5 | 17.0 |
| MT 1931 | | 66.9 | 48.9 | | 59.0 | 56.4 | | 16.4 | 16.6 |
| MT 1855 | | 66.1 | 39.2 | | 60.1 | 58.4 | | 16.1 | 17.0 |
| MT 1934 | | 65.5 | 40.3 | | 59.4 | 57.2 | | 16.4 | 17.2 |
| MT 1951 | | 64.6 | 37.2 | | 57.6 | 54.8 | | 17.9 | 18.7 |
| MS Ranchero | | 59.8 | 36.0 | | 59.5 | 57.2 | | 15.9 | 16.9 |
| LCS BUSTER | | 59.2 | 25.8 | | 59.1 | 58.1 | | 14.7 | 16.1 |
| BZ917-277 | | | 41.2 | | | 59.7 | | | 17.3 |
| WB 9516 | | | 40.3 | | | 59.8 | | | 16.3 |
| BZ917-252 | | | 39.3 | | | 51.9 | | | 19.2 |
| 509-2 | | | 38.0 | | | 56.2 | | | 18.1 |
| AP Gunsmoke CL2 | | | 37.9 | | | 56.2 | | | 18.9 |
| AP Smith | | | 36.8 | | | 55.5 | | | 17.7 |
| LNR 1713 | | | 36.6 | | | 56.3 | | | 16.8 |
| AAC Concord | | | 36.6 | | | 58.6 | | | 17.7 |
| LCS Ascent | | | 36.5 | | | 59.5 | | | 16.9 |
| MS Cobra | | | 33.4 | | | 58.7 | | | 18.2 |
| THATCHER | | | 27.8 | | | 56.7 | | | 17.7 |
| MEAN | 67.7 | 65.6 | 39.7 | 60.4 | 59.5 | 57.3 | 16.1 | 16.4 | 17.3 |
| C.V. | 7.2 | 8.1 | 12.4 | 1.5 | 1.7 | 1.3 | 2.2 | 2.9 | 2.0 |
| PROBABILITY (ENTRY) | <0.01 | ns | <0.001 | <0.01 | ns | <0.001 | <0.001 | <0.001 | <0.001 |
| LSD(0.05) | 8.1 | - | 8.4 | 1.5 | - | 1.3 | 0.6 | 1.0 | 0.6 |

1) No harvest due to hail in 2019

bold : highest or earliest value within a column

bold : equal value to highest or earliest value within a column based LSD(0.05)

2018-2021 ADVANCED SPRING WHEAT NURSERY, MOCCASIN (DRY) : YIELD, TEST WEIGHT AND PROTEIN

DISTRIC 4

| ID | YIELD | | | | TEST WEIGHT | | | | PROTEIN | | | |
|---------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | (BU/AC) | | | | (LB/BU) | | | | (%) | | | |
| | 2018-2021 | 2019-2021 | 2020-2021 | 2021 | 2018-2021 | 2019-2021 | 2020-2021 | 2021 | 2018-2021 | 2019-2021 | 2020-2021 | 2021 |
| SY ROCKFORD | 48.6 | 45.6 | 37.8 | 27.8 | 59.8 | 59.1 | 58.8 | 55.0 | 13.3 | 14.4 | 15.3 | 17.3 |
| LANNING | 47.1 | 44.0 | 36.4 | 24.1 | 60.2 | 59.6 | 58.8 | 54.8 | 13.5 | 14.5 | 15.5 | 17.5 |
| VIDA | 46.9 | 43.5 | 38.5 | 24.0 | 59.7 | 59.1 | 59.0 | 55.6 | 13.0 | 14.0 | 15.1 | 17.2 |
| WB GUNNISON | 46.8 | 41.8 | 36.1 | 21.9 | 60.4 | 59.8 | 59.8 | 56.8 | 13.5 | 14.5 | 15.2 | 16.9 |
| NS PRESSER CLP | 46.1 | 42.5 | 38.0 | 26.4 | 58.5 | 58.0 | 58.1 | 54.8 | 13.3 | 14.5 | 15.6 | 17.5 |
| WB 9590 | 45.8 | 41.8 | 34.3 | 23.6 | 60.6 | 59.9 | 59.7 | 56.1 | 13.8 | 14.7 | 15.7 | 18.2 |
| DAGMAR | 45.7 | 40.9 | 38.2 | 22.9 | 60.9 | 60.4 | 60.1 | 56.6 | 13.5 | 14.4 | 15.3 | 17.3 |
| WB 9879 CLP | 44.5 | 40.9 | 37.5 | 23.6 | 60.8 | 60.0 | 59.5 | 55.6 | 13.9 | 14.8 | 15.7 | 17.7 |
| SY 611 CL2 | 44.1 | 38.8 | 34.3 | 22.1 | 61.9 | 61.3 | 60.7 | 57.5 | 13.7 | 14.4 | 15.4 | 17.3 |
| SY McCLOUD | 43.7 | 39.6 | 36.0 | 25.2 | 61.8 | 61.3 | 60.7 | 57.6 | 14.4 | 15.1 | 16.0 | 17.8 |
| MCNEAL | 43.6 | 39.5 | 36.4 | 25.8 | 60.0 | 59.3 | 59.3 | 56.7 | 13.3 | 14.3 | 15.2 | 17.1 |
| MT SIDNEY | 43.5 | 38.6 | 36.4 | 25.6 | 60.9 | 60.2 | 60.1 | 56.1 | 13.4 | 14.4 | 15.4 | 17.8 |
| CORBIN | 43.3 | 40.2 | 33.7 | 22.7 | 60.1 | 60.2 | 60.2 | 57.4 | 13.8 | 14.7 | 15.4 | 17.8 |
| REEDER | 42.8 | 38.1 | 35.3 | 22.5 | 60.7 | 60.2 | 60.0 | 56.7 | 13.6 | 14.5 | 15.4 | 17.7 |
| WB 9719 | 42.6 | 37.9 | 34.6 | 22.8 | 62.8 | 62.3 | 62.2 | 59.0 | 13.1 | 13.8 | 14.9 | 16.8 |
| SY LONGMIRE | 42.5 | 39.1 | 34.3 | 23.4 | 61.2 | 60.6 | 60.2 | 56.8 | 13.9 | 14.8 | 16.0 | 18.1 |
| SY INGMAR | 42.4 | 39.2 | 32.4 | 22.5 | 60.7 | 59.7 | 59.4 | 55.1 | 14.5 | 15.3 | 16.5 | 18.9 |
| CHOTEAU | 42.3 | 39.1 | 33.5 | 21.9 | 59.8 | 59.3 | 58.7 | 54.8 | 14.0 | 14.8 | 15.7 | 18.1 |
| DUCLAIR | 41.9 | 38.9 | 34.6 | 22.1 | 59.6 | 59.0 | 58.5 | 54.6 | 13.4 | 14.3 | 15.2 | 17.4 |
| EGAN | 40.6 | 36.7 | 31.5 | 21.6 | 59.2 | 58.4 | 58.3 | 55.0 | 14.7 | 15.7 | 16.3 | 18.5 |
| MT 1809 | | 45.8 | 39.1 | 25.4 | | 58.9 | 58.7 | 54.8 | | 14.2 | 15.3 | 17.5 |
| MT 1855 | | 41.5 | 35.7 | 25.0 | | 58.8 | 58.8 | 55.5 | | 14.8 | 15.7 | 17.6 |
| MT 1931 | | | 40.2 | 30.0 | | | 58.9 | 55.0 | | | 15.2 | 17.4 |
| MT 1939 | | | 39.6 | 27.5 | | | 59.1 | 55.1 | | | 15.1 | 17.2 |
| MT 1904 | | | 39.1 | 28.3 | | | 61.0 | 58.1 | | | 15.1 | 17.2 |
| MT 1938 | | | 37.5 | 23.1 | | | 58.8 | 54.9 | | | 15.2 | 17.3 |
| MT 1934 | | | 37.3 | 27.3 | | | 59.2 | 55.7 | | | 14.9 | 17.0 |
| MS RANCHERO | | | 36.6 | 25.1 | | | 59.3 | 56.3 | | | 14.8 | 16.9 |
| MT 1951 | | | 35.9 | 22.5 | | | 56.3 | 52.8 | | | 16.0 | 18.2 |
| MT 1927 | | | 35.8 | 22.2 | | | 57.1 | 52.5 | | | 15.6 | 18.3 |
| LCS BUSTER | | | 33.2 | 20.5 | | | 56.4 | 53.4 | | | 15.2 | 17.5 |
| 509-2 | | | | 28.2 | | | | 56.1 | | | | 17.0 |
| LCS ASCENT | | | | 27.9 | | | | 58.3 | | | | 16.7 |
| WB 9516 | | | | 26.9 | | | | 58.9 | | | | 16.8 |
| MS COBRA | | | | 26.7 | | | | 57.7 | | | | 17.6 |
| BZ917-277 | | | | 24.2 | | | | 58.2 | | | | 17.3 |
| AP SMITH | | | | 23.7 | | | | 56.0 | | | | 18.1 |
| AP GUNSMOKE CL2 | | | | 23.6 | | | | 55.1 | | | | 18.4 |
| LNR 1713 | | | | 23.4 | | | | 55.6 | | | | 17.2 |
| BZ917-252 | | | | 23.1 | | | | 51.0 | | | | 18.6 |
| AAC CONCORD | | | | 23.1 | | | | 55.7 | | | | 18.0 |
| THATCHER | | | | 18.9 | | | | 54.4 | | | | 17.9 |
| MEAN | 44.2 | 40.6 | 36.1 | 24.3 | 60.5 | 59.8 | 59.2 | 55.9 | 13.7 | 14.6 | 15.4 | 17.5 |
| C.V. | 7.2 | 8.2 | 6.1 | 13.2 | 1.1 | 1.1 | 1.1 | 1.0 | 2.7 | 2.2 | 2.0 | 2.3 |
| PROBABILITY (ENTRY) | <0.05 | ns | <0.05 | <0.05 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| LSD(0.05) | 4.5 | - | 4.5 | 5.6 | 0.9 | 1.0 | 1.3 | 0.9 | 0.5 | 0.5 | 0.6 | 0.7 |

bold : highest or earliest value within a column

bold : equal value to highest or earliest value within a column based LSD(0.05)

2018-2021 ADVANCED SPRING WHEAT NURSERY, CONRAD (DRY) : YIELD, TEST WEIGHT AND PROTEIN

DISTRIC 5

| ID | YIELD | | | TEST WEIGHT | | | PROTEIN | | |
|---------------------|-----------------------------------|---------------|-------------|-----------------------------------|---------------|-------------|-----------------------------------|---------------|-------------|
| | (BU/AC) | | | (LB/BU) | | | (%) | | |
| | 2018, 2019, 2021 ¹⁾ | 2019, 2021 | 2021 | 2018, 2019, 2021 ¹⁾ | 2019, 2021 | 2021 | 2018, 2019, 2021 ¹⁾ | 2019, 2021 | 2021 |
| DAGMAR | 67.6 | 58.5 | 50.2 | 60.9 | 61.8 | 60.8 | 14.8 | 14.7 | 14.5 |
| WB 9719 | 61.9 | 54.2 | 44.2 | 63.1 | 64.7 | 64.1 | 13.7 | 13.3 | 12.7 |
| NS PRESSER CLP | 61.1 | 53.3 | 49.5 | 59.2 | 60.8 | 60.0 | 13.9 | 13.4 | 12.7 |
| WB GUNNISON | 58.6 | 51.9 | 45.6 | 61.4 | 62.3 | 61.8 | 13.1 | 12.9 | 12.4 |
| WB 9879 CLP | 58.1 | 54.3 | 49.1 | 59.4 | 60.5 | 59.7 | 14.9 | 14.5 | 13.7 |
| VIDA | 58.0 | 51.5 | 44.8 | 59.8 | 61.3 | 60.6 | 13.8 | 13.5 | 12.8 |
| LANNING | 57.0 | 47.3 | 45.3 | 59.7 | 60.5 | 59.5 | 14.6 | 14.2 | 12.9 |
| MT SIDNEY | 56.7 | 47.1 | 46.7 | 60.3 | 61.3 | 60.2 | 14.7 | 14.7 | 13.5 |
| SY LONGMIRE | 56.4 | 51.7 | 43.6 | 60.1 | 61.7 | 61.3 | 14.3 | 14.1 | 13.4 |
| CORBIN | 55.9 | 49.2 | 46.8 | 60.9 | 61.8 | 60.6 | 14.1 | 14.0 | 13.7 |
| DUCLAIR | 55.2 | 46.3 | 38.4 | 59.5 | 60.2 | 59.4 | 14.7 | 14.8 | 13.9 |
| CHOTEAU | 54.4 | 48.2 | 43.3 | 59.5 | 60.3 | 59.8 | 14.3 | 14.0 | 13.2 |
| SY McCLOUD | 54.2 | 47.5 | 43.2 | 61.4 | 62.4 | 61.5 | 15.4 | 15.4 | 14.7 |
| SY 611 CL2 | 54.2 | 46.7 | 42.3 | 61.5 | 62.7 | 61.9 | 14.8 | 14.7 | 14.2 |
| WB 9590 | 54.0 | 47.8 | 45.0 | 60.6 | 61.7 | 60.9 | 15.0 | 14.8 | 13.8 |
| REEDER | 53.8 | 46.1 | 45.9 | 60.2 | 61.4 | 60.9 | 14.7 | 14.4 | 13.2 |
| SY INGMAR | 53.0 | 46.9 | 40.0 | 60.1 | 61.1 | 60.8 | 15.1 | 14.8 | 14.4 |
| SY Rockford | 52.5 | 46.0 | 46.7 | 58.4 | 59.4 | 59.1 | 14.4 | 14.3 | 13.6 |
| EGAN | 51.5 | 45.8 | 45.3 | 58.5 | 59.5 | 58.8 | 15.4 | 15.0 | 14.4 |
| MCNEAL | 49.2 | 43.7 | 36.5 | 59.4 | 60.7 | 60.1 | 13.9 | 13.4 | 12.9 |
| MT 1855 | | 55.1 | 53.0 | | 61.1 | 60.0 | | 14.3 | 13.9 |
| MT 1809 | | 52.9 | 43.6 | | 60.5 | 59.5 | | 14.0 | 13.0 |
| MT 1939 | | | 56.8 | | | 60.1 | | | 13.3 |
| LCS ASCENT | | | 53.3 | | | 61.1 | | | 13.8 |
| WB 9516 | | | 51.7 | | | 61.2 | | | 12.4 |
| LNR 1713 | | | 51.6 | | | 60.3 | | | 13.5 |
| LCS BUSTER | | | 51.1 | | | 57.4 | | | 12.3 |
| MS RANCHERO | | | 50.7 | | | 59.9 | | | 13.1 |
| MT 1904 | | | 50.3 | | | 60.7 | | | 13.4 |
| MT 1927 | | | 50.1 | | | 57.0 | | | 13.6 |
| MT 1931 | | | 50.0 | | | 60.0 | | | 13.1 |
| MT 1934 | | | 49.8 | | | 60.0 | | | 14.6 |
| BZ917-252 | | | 48.2 | | | 57.3 | | | 13.8 |
| MT 1951 | | | 47.5 | | | 57.0 | | | 14.2 |
| 509-2 | | | 45.6 | | | 59.8 | | | 14.2 |
| BZ917-277 | | | 44.3 | | | 61.0 | | | 13.4 |
| MT 1938 | | | 43.8 | | | 59.4 | | | 14.5 |
| MS COBRA | | | 41.2 | | | 61.1 | | | 13.3 |
| AAC CONCORD | | | 40.7 | | | 58.9 | | | 13.3 |
| AP GUNSMOKE CL2 | | | 40.3 | | | 60.1 | | | 14.9 |
| THATCHER | 43.9 | 37.6 | 39.8 | 57.5 | 58.2 | 58.6 | 14.3 | 14.0 | 13.0 |
| AP SMITH | | | 36.7 | | | 60.1 | | | 14.6 |
| MEAN | 55.6 | 49.1 | 46.4 | 60.1 | 61.1 | 60.1 | 14.5 | 14.2 | 13.7 |
| C.V. | 7.7 | 9.8 | 15.0 | 1.0 | 0.8 | 0.9 | 2.8 | 2.9 | 4.9 |
| PROBABILITY (ENTRY) | <0.001 | ns | ns | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| LSD(0.05) | 7.0 | - | - | 1.0 | 1.0 | 1.0 | 0.7 | 0.9 | 1.1 |

1) Not planted in 2020

bold : highest or earliest value within a column

bold : equal value to highest or earliest value within a column based LSD(0.05)

2018-2021 ADVANCED SPRING WHEAT NURSERY, HAVRE (DRY) : YIELD, TEST WEIGHT AND PROTEIN

DISTRIC 5

| ID | YIELD | | | | TEST WEIGHT | | | | PROTEIN | | | |
|---------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | (BU/AC) | | | | (LB/BU) | | | | (%) | | | |
| | 2018-2021 | 2019-2021 | 2020-2021 | 2021 | 2018-2021 | 2019-2021 | 2020-2021 | 2021 | 2018-2021 | 2019-2021 | 2020-2021 | 2021 |
| DAGMAR | 47.4 | 48.5 | 47.7 | 25.4 | 60.4 | 60.1 | 60.5 | 59.6 | 15.9 | 15.8 | 15.6 | 16.6 |
| VIDA | 46.6 | 47.4 | 45.1 | 25.6 | 59.3 | 59.2 | 59.1 | 58.2 | 14.9 | 14.9 | 14.6 | 15.5 |
| WB 9879 CLP | 46.0 | 46.5 | 44.0 | 24.5 | 59.3 | 59.1 | 59.3 | 57.7 | 16.0 | 15.9 | 15.6 | 16.7 |
| SY LONGMIRE | 45.2 | 46.0 | 43.8 | 22.7 | 60.4 | 60.2 | 60.0 | 59.2 | 15.8 | 15.6 | 15.1 | 16.3 |
| MT SIDNEY | 44.9 | 45.6 | 43.0 | 23.0 | 60.2 | 59.8 | 59.8 | 58.0 | 15.5 | 15.5 | 15.3 | 16.4 |
| WB GUNNISON | 44.8 | 47.5 | 44.9 | 28.7 | 60.1 | 60.0 | 60.0 | 58.7 | 14.9 | 14.8 | 14.6 | 15.5 |
| WB 9719 | 44.7 | 43.9 | 41.1 | 20.9 | 61.3 | 61.0 | 60.7 | 59.4 | 15.1 | 15.0 | 14.8 | 15.9 |
| SY ROCKFORD | 43.9 | 43.7 | 43.0 | 23.9 | 58.6 | 58.2 | 58.4 | 56.9 | 15.4 | 15.3 | 15.1 | 16.3 |
| NS PRESSER CLP | 43.6 | 43.1 | 41.3 | 26.3 | 58.6 | 58.6 | 58.7 | 58.3 | 15.1 | 15.0 | 14.7 | 15.3 |
| LANNING | 43.5 | 43.4 | 42.8 | 21.9 | 59.2 | 59.4 | 59.2 | 58.3 | 15.9 | 15.9 | 15.4 | 16.4 |
| CORBIN | 42.8 | 43.5 | 42.5 | 28.9 | 60.2 | 60.0 | 60.0 | 59.4 | 16.1 | 15.8 | 15.5 | 16.4 |
| CHOTEAU | 42.6 | 44.6 | 44.6 | 24.8 | 59.2 | 59.0 | 59.1 | 57.4 | 15.8 | 15.7 | 15.3 | 16.4 |
| DUCLAIR | 42.4 | 44.9 | 42.8 | 21.8 | 58.7 | 58.3 | 58.2 | 56.9 | 15.8 | 15.7 | 15.5 | 16.7 |
| REEDER | 42.2 | 41.7 | 41.4 | 21.0 | 59.7 | 59.7 | 59.7 | 58.2 | 15.4 | 15.2 | 14.9 | 15.9 |
| SY 611 CL2 | 41.8 | 41.6 | 39.3 | 18.9 | 60.7 | 60.6 | 60.4 | 59.2 | 15.5 | 15.4 | 15.1 | 15.9 |
| SY INGMAR | 41.8 | 41.9 | 40.6 | 23.4 | 60.7 | 60.4 | 60.3 | 59.3 | 15.8 | 15.8 | 15.5 | 16.6 |
| EGAN | 41.5 | 42.3 | 41.5 | 20.2 | 57.3 | 57.3 | 57.4 | 56.2 | 16.7 | 16.5 | 16.2 | 17.1 |
| MCNEAL | 41.3 | 41.8 | 39.2 | 21.1 | 58.0 | 58.2 | 58.0 | 57.4 | 15.3 | 15.1 | 14.9 | 15.9 |
| WB 9590 | 41.1 | 42.0 | 40.1 | 21.1 | 61.1 | 61.0 | 61.4 | 60.5 | 15.9 | 15.7 | 15.3 | 16.5 |
| SY McCLOUD | 40.9 | 41.2 | 41.1 | 22.6 | 61.4 | 61.0 | 61.3 | 59.7 | 16.1 | 16.0 | 15.4 | 16.3 |
| MT 1809 | | 50.8 | 50.2 | 27.6 | | 59.2 | 59.6 | 58.9 | | 15.3 | 15.0 | 16.0 |
| MT 1855 | | 42.3 | 38.6 | 21.4 | | 58.6 | 58.6 | 58.1 | | 15.8 | 15.8 | 17.3 |
| MT 1938 | | | 47.8 | 26.2 | | | 59.7 | 58.6 | | | 15.2 | 16.2 |
| MT 1904 | | | 47.5 | 26.8 | | | 60.7 | 59.4 | | | 15.0 | 16.4 |
| MT 1934 | | | 46.1 | 25.1 | | | 59.8 | 58.4 | | | 14.6 | 15.6 |
| MT 1927 | | | 44.9 | 25.4 | | | 57.6 | 56.2 | | | 15.7 | 16.9 |
| MT 1939 | | | 44.7 | 23.7 | | | 59.3 | 57.3 | | | 14.9 | 16.1 |
| LCS BUSTER | | | 43.8 | 26.9 | | | 56.0 | 56.4 | | | 14.1 | 14.6 |
| MT 1931 | | | 42.5 | 21.0 | | | 60.0 | 59.1 | | | 15.0 | 16.0 |
| MT 1951 | | | 42.1 | 21.8 | | | 55.5 | 53.9 | | | 16.0 | 17.2 |
| MS 201 | | | 40.4 | 24.4 | | | 59.3 | 58.5 | | | 14.7 | 15.5 |
| BZ917-277 | | | | 29.2 | | | | 54.4 | | | | 16.3 |
| AAC CONCORD | | | | 26.8 | | | | 59.2 | | | | 16.0 |
| BZ917-252 | | | | 26.5 | | | | 59.8 | | | | 15.5 |
| WB 9516 | | | | 24.4 | | | | 58.1 | | | | 16.0 |
| 509-2 | | | | 24.0 | | | | 57.3 | | | | 16.5 |
| AP GUNSMOKE CL2 | | | | 23.6 | | | | 58.4 | | | | 16.4 |
| LCS ASCENT | | | | 21.9 | | | | 55.4 | | | | 16.7 |
| AP SMITH | | | | 21.9 | | | | 56.9 | | | | 15.8 |
| MS COBRA | | | | 19.6 | | | | 57.1 | | | | 16.3 |
| LNR 1713 | | | | 19.5 | | | | 60.9 | | | | 15.6 |
| THATCHER | | | | 16.3 | | | | 59.2 | | | | 15.7 |
| MEAN | 43.4 | 44.3 | 43.2 | 23.5 | 59.7 | 59.5 | 59.3 | 58.3 | 15.6 | 15.5 | 15.2 | 16.2 |
| C.V. | 6.7 | 6.5 | 7.2 | 5.5 | 0.9 | 0.9 | 1.2 | 1.1 | 1.5 | 1.8 | 1.9 | 1.5 |
| PROBABILITY (ENTRY) | <0.05 | <0.01 | ns | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| LSD(0.05) | 4.1 | 4.8 | - | 2.2 | 0.8 | 0.9 | 1.4 | 1.1 | 0.3 | 0.5 | 0.6 | 0.4 |

bold : highest or earliest value within a column

bold : equal value to highest or earliest value within a column based LSD(0.05)

2018-2021 ADVANCED SPRING WHEAT NURSERY, SIDNEY (DRY) : YIELD, TEST WEIGHT AND PROTEIN

DISTRIC 6

| ID | YIELD | | | | TEST WEIGHT | | | | PROTEIN | | | |
|---------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | (BU/AC) | | | | (LB/BU) | | | | (%) | | | |
| | 2018-2021 | 2019-2021 | 2020-2021 | 2021 | 2018-2021 | 2019-2021 | 2020-2021 | 2021 | 2018-2021 | 2019-2021 | 2020-2021 | 2021 |
| NS PRESSER CLP | <u>63.1</u> | <u>64.9</u> | <u>51.5</u> | <u>55.5</u> | 61.3 | 60.7 | 60.1 | 57.9 | 14.5 | 14.5 | 15.0 | 14.4 |
| WB 9719 | 63.0 | 63.5 | 46.3 | 50.4 | <u>65.0</u> | <u>64.5</u> | <u>63.6</u> | 61.8 | 14.8 | 14.5 | 15.3 | 14.6 |
| VIDA | 61.7 | 61.9 | 49.7 | 53.1 | 62.3 | 61.8 | 61.5 | 59.8 | 14.2 | 14.1 | 14.6 | 13.7 |
| REEDER | 61.0 | 60.7 | 47.0 | 50.1 | 62.6 | 62.2 | 61.6 | 59.6 | 15.1 | 15.1 | 15.7 | 14.8 |
| DAGMAR | 60.4 | 61.2 | 50.4 | 58.1 | 63.3 | 63.0 | 62.9 | 62.1 | 14.9 | 14.8 | 15.5 | 14.2 |
| MT SIDNEY | 59.9 | 61.2 | 46.1 | 50.5 | 62.8 | 61.9 | 61.3 | 58.6 | 14.6 | 14.8 | 15.5 | 15.1 |
| SY ROCKFORD | 59.8 | 62.9 | 44.9 | 51.4 | 61.4 | 60.8 | 60.1 | 57.6 | 14.8 | 14.8 | 15.7 | 15.1 |
| WB 9590 | 58.4 | 58.4 | 44.9 | 53.6 | 63.4 | 62.9 | 62.7 | 61.3 | 15.3 | 15.4 | 15.9 | 14.6 |
| MCNEAL | 57.8 | 56.2 | 40.5 | 41.8 | 61.2 | 60.5 | 59.4 | 57.3 | 14.8 | 15.0 | 16.1 | 15.8 |
| LANNING | 57.0 | 57.0 | 43.4 | 48.7 | 61.9 | 61.4 | 60.7 | 58.4 | 15.6 | 15.6 | 16.0 | 14.9 |
| SY 611 CL2 | 56.9 | 57.5 | 43.5 | 49.4 | 63.6 | 63.0 | 62.2 | 59.7 | 15.1 | 15.0 | 16.0 | 15.2 |
| CHOTEAU | 56.8 | 59.0 | 42.7 | 46.5 | 62.0 | 61.5 | 61.1 | 59.5 | 15.1 | 15.0 | 15.6 | 14.8 |
| SY INGMAR | 56.7 | 60.0 | 47.7 | 49.4 | 63.0 | 62.3 | 61.9 | 60.0 | 15.4 | 15.2 | 15.4 | 14.7 |
| SY LONGMIRE | 56.3 | 55.5 | 41.8 | 43.2 | 63.3 | 62.8 | 62.0 | 59.7 | 15.1 | 15.0 | 15.6 | 15.0 |
| WB 9879 CLP | 55.0 | 56.0 | 41.0 | 46.3 | 62.3 | 61.7 | 61.4 | 60.0 | 15.0 | 15.0 | 16.0 | 15.1 |
| DUCLAIR | 54.4 | 55.1 | 39.2 | 41.0 | 61.2 | 60.6 | 59.8 | 57.9 | 14.7 | 14.6 | 15.3 | 15.2 |
| SY McCLOUD | 53.6 | 54.8 | 43.0 | 48.9 | 64.0 | 63.4 | 63.1 | 61.1 | 15.8 | 15.7 | 15.8 | 15.1 |
| EGAN | 52.1 | 52.9 | 39.5 | 44.6 | 60.5 | 59.9 | 58.8 | 57.2 | 16.5 | 16.4 | 17.3 | 16.4 |
| WB GUNNISON | 51.6 | 50.7 | 39.3 | 43.6 | 62.7 | 62.3 | 61.8 | 60.4 | 14.3 | 14.2 | 14.8 | 14.4 |
| CORBIN | 51.5 | 51.8 | 37.3 | 42.9 | 62.4 | 61.9 | 61.5 | 59.7 | 15.0 | 14.9 | 15.4 | 15.1 |
| MT 1809 | | 64.1 | 48.5 | 51.9 | | 61.3 | 60.9 | 58.5 | | 15.0 | 15.8 | 15.1 |
| MT 1855 | | 60.2 | 43.7 | 49.9 | | 60.9 | 59.8 | 56.6 | | 15.2 | 16.0 | 15.1 |
| MT 1938 | | | <u>51.7</u> | <u>57.3</u> | | | 61.6 | 60.1 | | | 14.7 | 14.0 |
| MT 1934 | | | 50.9 | <u>58.6</u> | | | 61.5 | 59.8 | | | 14.5 | 13.4 |
| MT 1939 | | | 50.7 | 55.0 | | | 61.3 | 59.4 | | | 14.6 | 13.9 |
| MT 1931 | | | 48.0 | 56.7 | | | 61.5 | 59.8 | | | 14.8 | 14.1 |
| LCS BUSTER | | | 46.6 | 47.1 | | | 59.1 | 56.2 | | | 13.7 | 13.9 |
| MT 1951 | | | 44.8 | 48.9 | | | 57.4 | 55.1 | | | 16.5 | 16.2 |
| MT 1904 | | | 43.9 | 46.8 | | | 62.8 | 61.2 | | | 15.5 | 15.2 |
| MT 1927 | | | 43.9 | 47.6 | | | 58.6 | 55.9 | | | 16.4 | 16.0 |
| MS RANCHERO | | | 42.7 | 47.5 | | | 62.0 | 60.4 | | | 14.4 | 13.7 |
| LCS ASCENT | | | | 53.6 | | | | 62.8 | | | | 13.7 |
| BZ917-277 | | | | 52.2 | | | | 60.5 | | | | 14.8 |
| 509-2 | | | | 49.9 | | | | 60.6 | | | | 14.0 |
| MS COBRA | | | | 49.8 | | | | 60.6 | | | | 15.0 |
| WB 9516 | | | | 49.7 | | | | 61.8 | | | | 14.3 |
| BZ917-252 | | | | 49.3 | | | | 55.5 | | | | 14.9 |
| AP GUNSMOKE CL2 | | | | 48.6 | | | | 59.2 | | | | 15.2 |
| AP SMITH | | | | 48.0 | | | | 59.1 | | | | 15.5 |
| LNR 1713 | | | | 47.6 | | | | 59.2 | | | | 14.6 |
| AAC CONCORD | | | | 42.3 | | | | 59.2 | | | | 15.7 |
| THATCHER | | | | 37.1 | | | | 56.7 | | | | 16.4 |
| MEAN | 57.3 | 58.4 | 45.0 | 49.9 | 62.5 | 61.9 | 61.1 | 59.5 | 15.0 | 15.0 | 15.4 | 14.7 |
| C.V. | 7.0 | 6.6 | 6.5 | 6.2 | 1.0 | 1.2 | 1.2 | 1.0 | 3.3 | 3.5 | 3.1 | 3.1 |
| PROBABILITY (ENTRY) | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.01 | <0.001 | <0.001 |
| LSD(0.05) | 5.7 | 6.4 | 6.0 | 5.3 | 0.9 | 1.2 | 1.5 | 1.0 | 0.7 | 0.9 | 1.0 | 0.8 |

bold : highest or earliest value within a column

bold : equal value to highest or earliest value within a column based LSD(0.05)

2018-2021 ADVANCED SPRING WHEAT NURSERY, SIDNEY (IRRI) : YIELD, TEST WEIGHT AND PROTEIN

DISTRIC 6

| ID | YIELD | | | | TEST WEIGHT | | | | PROTEIN | | | |
|---------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | (BU/AC) | | | | (LB/BU) | | | | (%) | | | |
| | 2018-2021 | 2019-2021 | 2020-2021 | 2021 | 2018-2021 | 2019-2021 | 2020-2021 | 2021 | 2018-2021 | 2019-2021 | 2020-2021 | 2021 |
| SY 611 CL2 | <u>92.4</u> | <u>91.0</u> | 83.9 | 63.9 | 63.8 | 63.6 | 63.8 | 62.7 | 14.9 | 14.7 | 14.6 | 14.3 |
| WB 9719 | <u>91.4</u> | <u>87.6</u> | 83.0 | <u>71.7</u> | <u>65.6</u> | <u>65.5</u> | <u>65.9</u> | <u>65.6</u> | 14.6 | 14.5 | 14.2 | 13.8 |
| VIDA | <u>90.5</u> | <u>89.7</u> | 85.8 | <u>75.2</u> | 62.6 | 62.8 | 63.3 | 63.5 | 14.6 | 14.5 | 14.1 | 13.3 |
| SY ROCKFORD | <u>89.6</u> | <u>87.4</u> | 82.1 | <u>68.5</u> | 62.0 | 62.0 | 62.7 | 62.4 | 14.5 | 14.4 | 14.2 | 14.0 |
| MT SIDNEY | <u>89.6</u> | <u>85.2</u> | 82.9 | <u>67.7</u> | 63.6 | 63.5 | 64.0 | 63.1 | 14.9 | 14.7 | 14.3 | 13.7 |
| SY LONGMIRE | <u>89.6</u> | <u>89.7</u> | 84.5 | <u>68.4</u> | 63.2 | 63.3 | 63.6 | 62.8 | 15.0 | 14.7 | 14.4 | 14.1 |
| DAGMAR | <u>89.5</u> | <u>88.3</u> | 84.7 | <u>74.0</u> | 62.9 | 62.9 | 63.5 | 63.3 | <u>15.9</u> | <u>15.6</u> | 15.5 | 14.8 |
| SY INGMAR | <u>88.8</u> | <u>86.4</u> | 81.8 | <u>63.4</u> | 63.7 | 63.4 | 63.9 | 62.8 | 15.2 | 15.1 | 14.9 | 14.7 |
| REEDER | <u>88.6</u> | <u>86.9</u> | 83.0 | <u>72.9</u> | 62.9 | 62.8 | 63.2 | 62.6 | 15.3 | 15.1 | 14.9 | 14.7 |
| LANNING | <u>87.2</u> | <u>85.9</u> | 80.2 | 61.3 | 61.7 | 61.4 | 61.6 | 60.0 | <u>15.8</u> | <u>15.8</u> | <u>15.7</u> | 15.3 |
| WB 9590 | <u>86.0</u> | <u>83.6</u> | 78.9 | 64.2 | 62.8 | 62.7 | 63.2 | 62.4 | 15.5 | 15.3 | 15.0 | 14.6 |
| NS PRESSER CLP | 83.8 | <u>85.1</u> | 83.0 | <u>77.4</u> | 61.7 | 62.0 | 62.7 | 63.6 | 14.4 | 14.3 | 13.9 | 13.1 |
| SY McCLOUD | 82.9 | <u>84.0</u> | 80.0 | 66.8 | 64.3 | 64.2 | <u>64.8</u> | 64.6 | 15.7 | 15.4 | 15.3 | 15.0 |
| DUCLAIR | 81.7 | 79.5 | 75.1 | 62.6 | 61.8 | 61.5 | 61.9 | 61.1 | 14.9 | 14.7 | 14.7 | 14.4 |
| MCNEAL | 81.0 | 79.1 | 73.3 | 61.1 | 61.7 | 61.5 | 61.7 | 60.9 | 15.6 | <u>15.6</u> | 15.5 | 15.7 |
| CHOTEAU | 79.5 | 77.9 | 75.6 | 63.5 | 62.0 | 62.0 | 62.5 | 62.4 | 15.1 | 15.0 | 15.0 | 14.4 |
| WB 9879 CLP | 79.0 | 76.9 | 75.1 | 63.9 | 62.2 | 62.1 | 63.0 | 62.7 | 15.4 | 15.4 | 15.1 | 15.0 |
| WB GUNNISON | 78.1 | 77.5 | 77.6 | 65.9 | 63.3 | 63.3 | 63.9 | 63.8 | 14.4 | 14.1 | 13.9 | 13.7 |
| CORBIN | 77.4 | 76.8 | 74.1 | 56.0 | 63.1 | 63.0 | 63.7 | 63.3 | 15.3 | 15.2 | 15.0 | 15.1 |
| EGAN | 77.1 | 76.3 | 70.4 | 60.4 | 61.2 | 61.0 | 61.0 | 60.3 | <u>16.2</u> | <u>16.2</u> | <u>16.4</u> | <u>16.7</u> |
| MT 1809 | | <u>89.4</u> | <u>86.9</u> | <u>68.0</u> | | 62.3 | 63.0 | 62.8 | | 15.1 | 14.6 | 14.1 |
| MT 1855 | | <u>86.0</u> | 82.5 | <u>73.9</u> | | 62.5 | 62.8 | 62.4 | | 14.6 | 14.4 | 13.9 |
| MT 1934 | | | 84.9 | <u>73.1</u> | | | 62.3 | 62.1 | | | 15.1 | 14.2 |
| MS RANCHERO | | | 84.2 | <u>62.8</u> | | | 62.9 | 62.2 | | | 14.0 | 14.0 |
| MT 1931 | | | 83.8 | <u>68.9</u> | | | 62.2 | 61.1 | | | 15.5 | 15.0 |
| LCS BUSTER | | | 82.8 | 57.7 | | | 61.2 | 60.1 | | | 12.9 | 13.4 |
| MT 1939 | | | 82.3 | 66.2 | | | 62.6 | 61.6 | | | 14.5 | 14.1 |
| MT 1938 | | | 81.9 | <u>67.2</u> | | | 62.8 | 62.6 | | | 15.1 | 14.8 |
| MT 1927 | | | 80.8 | 64.9 | | | 61.6 | 60.7 | | | 14.8 | 15.1 |
| MT 1951 | | | 78.2 | 57.9 | | | 59.6 | 58.3 | | | <u>16.5</u> | <u>16.9</u> |
| 509-2 | | | | <u>73.5</u> | | | | 63.0 | | | | 13.0 |
| WB 9516 | | | | <u>73.2</u> | | | | <u>65.6</u> | | | | 13.7 |
| BZ917-277 | | | | <u>71.0</u> | | | | 63.7 | | | | 14.0 |
| LCS ASCENT | | | | <u>70.6</u> | | | | 64.3 | | | | 13.4 |
| AP SMITH | | | | 66.9 | | | | 62.6 | | | | 14.8 |
| BZ917-252 | | | | 64.9 | | | | 59.0 | | | | 15.3 |
| LNR 1713 | | | | 64.4 | | | | 63.3 | | | | 13.6 |
| AP GUNSMOKE CL2 | | | | 64.0 | | | | 62.3 | | | | 14.4 |
| MS COBRA | | | | 60.7 | | | | 63.5 | | | | 14.7 |
| AAC CONCORD | | | | 55.1 | | | | 62.6 | | | | <u>15.9</u> |
| THATCHER | | | | 54.5 | | | | 61.7 | | | | 15.0 |
| MEAN | <u>85.2</u> | <u>84.1</u> | <u>80.6</u> | <u>65.3</u> | <u>62.8</u> | <u>62.7</u> | <u>62.8</u> | <u>62.5</u> | <u>15.1</u> | <u>15.0</u> | <u>14.8</u> | <u>14.5</u> |
| C.V. | 5.6 | 5.7 | 7.4 | 10.5 | 1.0 | 1.0 | 1.2 | 1.2 | 2.5 | 2.7 | 3.4 | 4.8 |
| PROBABILITY (ENTRY) | <0.001 | <0.001 | ns | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| LSD(0.05) | <u>6.7</u> | <u>7.8</u> | - | <u>10.4</u> | <u>0.9</u> | <u>1.0</u> | <u>1.6</u> | <u>0.9</u> | <u>0.5</u> | <u>0.7</u> | <u>1.0</u> | <u>1.1</u> |

bold : highest or earliest value within a column

bold : equal value to highest or earliest value within a column based LSD(0.05)

**2021 OVERALL AGRONOMIC SUMMARY FOR THE ADVANCED SPRING WHEAT NURSERY
GROWN UNDER RAIN-FED CONDITION**

| ID | YIELD (BU/AC) | TEST WEIGHT (LB/BU) | PROTEIN (%) | HEADING DATE (JULIAN) | PLANT HEIGHT (IN.) |
|-------------------|------------------|---------------------------|----------------|-----------------------------|--------------------------|
| MT 1939 | 38.8 | 58.2 | 15.2 | 175.0 | 24.1 |
| DAGMAR | 37.9 | 59.3 | 16.1 | 173.6 | 25.1 |
| MT 1809 | 37.5 | 57.8 | 15.9 | 175.5 | 24.4 |
| NS PRESSER CLP | 37.3 | 57.7 | 15.2 | 178.2 | 25.6 |
| MT 1934 | 37.2 | 58.4 | 15.5 | 174.4 | 25.0 |
| MT 1931 | 37.0 | 58.2 | 15.5 | 174.0 | 24.0 |
| VIDA | 36.9 | 58.5 | 15.0 | 176.4 | 24.7 |
| LCS ASCENT | 36.8 | 60.4 | 15.3 | 173.7 | 24.9 |
| WB 9516 | 36.6 | 60.2 | 15.1 | 176.4 | 24.4 |
| MT SIDNEY | 36.1 | 58.3 | 15.8 | 175.6 | 25.4 |
| MT 1938 | 36.1 | 58.0 | 15.8 | 174.5 | 24.5 |
| BZ917-277 | 35.9 | 59.6 | 15.7 | 176.6 | 24.9 |
| MT 1904 | 35.8 | 59.8 | 15.8 | 176.9 | 24.4 |
| MT 1927 | 35.4 | 56.0 | 16.2 | 177.4 | 24.9 |
| MT 1855 | 35.1 | 58.1 | 15.9 | 176.9 | 25.8 |
| LNR 1713 | 34.9 | 58.5 | 15.4 | 174.9 | 24.7 |
| MS RANCHERO | 34.9 | 58.2 | 15.2 | 174.0 | 25.0 |
| WB 9879 CLP | 34.6 | 58.1 | 16.1 | 176.4 | 24.0 |
| BZ917-252 | 34.5 | 54.8 | 16.2 | 177.3 | 22.6 |
| LANNING | 34.4 | 57.6 | 16.1 | 174.3 | 23.0 |
| SY ROCKFORD | 34.3 | 56.8 | 15.8 | 177.6 | 23.9 |
| WB 9719 | 34.2 | 60.3 | 15.4 | 177.3 | 23.2 |
| REEDER | 34.0 | 58.7 | 15.7 | 176.2 | 24.4 |
| 509-2 | 33.8 | 57.9 | 15.8 | 173.7 | 23.4 |
| WB 9590 | 33.7 | 59.2 | 16.2 | 174.2 | 21.6 |
| WB GUNNISON | 33.4 | 59.0 | 15.3 | 175.7 | 23.4 |
| SY McCLOUD | 33.0 | 59.4 | 16.3 | 174.9 | 23.9 |
| MT 1951 | 33.0 | 55.1 | 17.0 | 175.6 | 25.4 |
| SY LONGMIRE | 33.0 | 59.2 | 16.0 | 175.9 | 24.0 |
| LCS BUSTER | 33.0 | 56.6 | 14.4 | 178.9 | 23.4 |
| CORBIN | 32.9 | 59.1 | 15.9 | 173.8 | 24.7 |
| AAC CONCORD | 32.8 | 57.7 | 16.0 | 176.7 | 26.6 |
| CHOTEAU | 32.8 | 58.1 | 16.0 | 175.7 | 24.3 |
| AP GUNSMOKE CL2 | 32.8 | 57.9 | 16.7 | 174.7 | 23.3 |
| SY INGMAR | 32.7 | 58.5 | 16.5 | 175.9 | 23.3 |
| SY 611 CL2 | 32.3 | 59.1 | 15.9 | 175.6 | 22.8 |
| AP SMITH | 32.3 | 58.1 | 16.3 | 176.8 | 21.7 |
| DUCLAIR | 32.2 | 57.1 | 15.9 | 174.1 | 24.1 |
| MS COBRA | 32.2 | 59.1 | 16.1 | 174.5 | 23.9 |
| EGAN | 31.3 | 56.5 | 17.1 | 177.0 | 24.5 |
| MCNEAL | 31.1 | 57.5 | 15.9 | 176.9 | 25.2 |
| THATCHER | 26.0 | 55.4 | 16.1 | 179.3 | 29.9 |
| MEAN | 34.5 | 58.3 | 15.8 | 175.3 | 24.4 |
| C.V. | 8.8 | 1.8 | 3.2 | 0.5 | 5.2 |
| PROBABILITY(LINE) | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| LSD(0.05) | 2.7 | 0.9 | 0.4 | 1.0 | 1.1 |

bold : highest or earliest value within a column

bold : equal value to highest or earliest value within a column based LSD(0.05)

**2021 OVERALL AGRONOMIC SUMMARY FOR THE ADVANCED SPRING WHEAT NURSERY
GROWN UNDER IIRRI / HIGH RAINFALL CONDITION**

| ID | YIELD (BU/AC) | TEST WEIGHT (LB/BU) | PROTEIN (%) | HEADING DATE (JULIAN) | PLANT HEIGHT (IN.) |
|-------------------|------------------|---------------------------|----------------|-----------------------------|--------------------------|
| WB 9516 | 93.9 | 63.2 | 13.2 | 177.6 | 30.0 |
| NS PRESSER CLP | 92.3 | 61.5 | 12.2 | 178.7 | 33.5 |
| MT SIDNEY | 90.7 | 61.8 | 12.6 | 176.7 | 34.0 |
| LCS BUSTER | 88.4 | 58.7 | 12.2 | 180.8 | 29.8 |
| MT 1939 | 88.2 | 60.5 | 12.8 | 174.4 | 31.1 |
| MT 1934 | 88.1 | 61.0 | 12.6 | 173.8 | 31.3 |
| MT 1927 | 87.9 | 59.4 | 13.2 | 178.3 | 33.6 |
| MT 1855 | 87.4 | 61.1 | 12.2 | 177.5 | 33.0 |
| MT 1809 | 86.7 | 61.1 | 12.1 | 175.9 | 32.9 |
| LCS ASCENT | 85.8 | 62.1 | 11.9 | 173.9 | 32.4 |
| SY ROCKFORD | 85.8 | 60.3 | 12.8 | 178.6 | 30.8 |
| VIDA | 85.1 | 61.7 | 11.9 | 176.6 | 32.4 |
| BZ917-277 | 84.6 | 62.3 | 12.5 | 177.9 | 32.7 |
| MS RANCHERO | 84.2 | 60.6 | 12.0 | 174.2 | 33.1 |
| WB 9719 | 84.1 | 64.1 | 12.3 | 178.2 | 29.4 |
| REEDER | 84.1 | 61.9 | 13.0 | 176.5 | 32.4 |
| WB 9590 | 83.1 | 60.9 | 13.2 | 175.8 | 26.9 |
| MS COBRA | 83.0 | 61.9 | 13.6 | 175.2 | 31.3 |
| SY LONGMIRE | 82.9 | 62.0 | 12.3 | 175.4 | 30.3 |
| AP SMITH | 82.6 | 61.5 | 13.8 | 178.1 | 29.4 |
| BZ917-252 | 82.0 | 57.8 | 13.4 | 178.5 | 27.8 |
| WB GUNNISON | 81.0 | 62.3 | 12.2 | 176.0 | 29.1 |
| SY 611 CL2 | 80.4 | 61.9 | 12.3 | 174.9 | 28.7 |
| MT 1931 | 80.2 | 60.2 | 12.9 | 174.0 | 30.6 |
| LNR 1713 | 80.0 | 61.5 | 11.7 | 176.1 | 32.2 |
| MT 1904 | 79.2 | 62.6 | 11.6 | 176.8 | 33.6 |
| MT 1938 | 79.0 | 60.8 | 12.8 | 174.5 | 32.0 |
| MT 1951 | 79.0 | 57.6 | 14.7 | 176.6 | 34.2 |
| DAGMAR | 78.9 | 61.4 | 12.7 | 174.0 | 32.7 |
| LANNING | 78.3 | 59.9 | 13.3 | 174.8 | 31.0 |
| SY McCLOUD | 77.6 | 63.2 | 12.9 | 174.7 | 30.7 |
| CORBIN | 77.4 | 61.6 | 12.7 | 174.4 | 30.9 |
| DUCLAIR | 77.2 | 60.1 | 12.5 | 173.9 | 32.6 |
| AP GUNSMOKE CL2 | 76.8 | 60.8 | 12.4 | 175.1 | 30.9 |
| MCNEAL | 76.5 | 60.6 | 13.3 | 178.0 | 32.7 |
| SY INGMAR | 75.9 | 62.0 | 13.0 | 176.4 | 29.7 |
| 509-2 | 75.7 | 61.3 | 11.5 | 173.6 | 29.6 |
| WB 9879 CLP | 74.2 | 61.0 | 12.9 | 176.5 | 30.8 |
| CHOTEAU | 74.0 | 60.9 | 12.4 | 175.8 | 32.2 |
| THATCHER | 71.2 | 60.4 | 13.5 | 180.5 | 41.4 |
| EGAN | 70.2 | 59.9 | 14.4 | 177.7 | 30.8 |
| AAC CONCORD | 67.3 | 60.8 | 13.2 | 177.5 | 35.9 |
| MEAN | 81.4 | 61.1 | 12.7 | 175.6 | 31.6 |
| C.V. | 10.0 | 1.2 | 5.2 | 0.7 | 4.3 |
| PROBABILITY(LINE) | ns | <0.001 | <0.01 | <0.001 | <0.001 |
| LSD(0.05) | - | 1.5 | 1.3 | 2.3 | 2.7 |

bold : highest or earliest value within a column

bold : equal value to highest or earliest value within a column based LSD(0.05)

**2021 OVERALL AGRONOMIC SUMMARY FOR THE ADVANCED SPRING WHEAT NURSERY
GROWN ACROSS MONTANA (COMBINED)**

| ID | YIELD (BU/AC) | TEST WEIGHT (LB/BU) | PROTEIN (%) | HEADING DATE (JULIAN) | PLANT HEIGHT (IN.) |
|-------------------|------------------|---------------------------|----------------|-----------------------------|--------------------------|
| MT 1939 | 47.1 | 58.6 | 14.8 | 174.8 | 25.2 |
| NS PRESSER CLP | 46.4 | 58.3 | 14.7 | 178.3 | 26.9 |
| WB 9516 | 46.1 | 60.7 | 14.7 | 176.7 | 25.3 |
| MT 1934 | 45.7 | 58.8 | 15.0 | 174.2 | 26.0 |
| MT 1809 | 45.7 | 58.3 | 15.3 | 175.6 | 25.8 |
| MT SIDNEY | 45.2 | 58.9 | 15.2 | 175.9 | 26.9 |
| LCS ASCENT | 45.0 | 60.6 | 14.7 | 173.7 | 26.1 |
| VIDA | 44.9 | 59.0 | 14.5 | 176.4 | 26.0 |
| DAGMAR | 44.7 | 59.7 | 15.5 | 173.7 | 26.4 |
| MT 1931 | 44.2 | 58.5 | 15.1 | 174.0 | 25.1 |
| MT 1927 | 44.1 | 56.6 | 15.7 | 177.6 | 26.3 |
| BZ917-277 | 44.0 | 60.1 | 15.1 | 177.0 | 26.2 |
| MT 1855 | 43.8 | 58.6 | 15.3 | 177.1 | 27.0 |
| MT 1938 | 43.2 | 58.5 | 15.3 | 174.5 | 25.7 |
| MS RANCHERO | 43.1 | 58.6 | 14.7 | 174.0 | 26.3 |
| MT 1904 | 43.0 | 60.3 | 15.1 | 176.8 | 25.9 |
| SY ROCKFORD | 42.9 | 57.3 | 15.3 | 177.8 | 25.1 |
| WB 9719 | 42.5 | 61.0 | 14.9 | 177.6 | 24.2 |
| BZ917-252 | 42.4 | 55.3 | 15.7 | 177.6 | 23.4 |
| LNR 1713 | 42.4 | 59.0 | 14.8 | 175.2 | 26.0 |
| REEDER | 42.3 | 59.2 | 15.3 | 176.3 | 25.7 |
| LCS BUSTER | 42.2 | 56.9 | 14.1 | 179.5 | 24.5 |
| WB 9590 | 41.9 | 59.5 | 15.7 | 174.6 | 22.5 |
| LANNING | 41.7 | 58.0 | 15.6 | 174.4 | 24.3 |
| WB GUNNISON | 41.4 | 59.6 | 14.8 | 175.7 | 24.4 |
| SY LONGMIRE | 41.3 | 59.7 | 15.4 | 175.7 | 25.0 |
| WB 9879 CLP | 41.2 | 58.6 | 15.5 | 176.4 | 25.2 |
| 509-2 | 40.8 | 58.5 | 15.1 | 173.6 | 24.4 |
| MT 1951 | 40.7 | 55.5 | 16.6 | 175.9 | 26.9 |
| AP SMITH | 40.7 | 58.7 | 15.9 | 177.2 | 23.0 |
| MS COBRA | 40.6 | 59.6 | 15.7 | 174.7 | 25.1 |
| SY McCLOUD | 40.5 | 60.0 | 15.8 | 174.8 | 25.0 |
| CORBIN | 40.3 | 59.5 | 15.3 | 174.0 | 25.7 |
| SY 611 CL2 | 40.3 | 59.5 | 15.3 | 175.4 | 23.8 |
| AP GUNSMOKE CL2 | 40.1 | 58.3 | 16.0 | 174.8 | 24.6 |
| SY INGMAR | 39.9 | 59.1 | 15.9 | 176.0 | 24.4 |
| DUCLAIR | 39.7 | 57.6 | 15.4 | 174.0 | 25.5 |
| CHOTEAU | 39.7 | 58.6 | 15.4 | 175.7 | 25.6 |
| MCNEAL | 38.6 | 58.0 | 15.5 | 177.2 | 26.4 |
| AAC CONCORD | 38.6 | 58.2 | 15.5 | 176.9 | 28.1 |
| EGAN | 37.8 | 57.1 | 16.6 | 177.2 | 25.6 |
| THATCHER | 33.5 | 56.2 | 15.6 | 179.7 | 31.8 |
| MEAN | 42.3 | 58.7 | 15.3 | 175.4 | 25.6 |
| C.V. | 10.1 | 1.7 | 3.6 | 0.5 | 5.0 |
| PROBABILITY(LINE) | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| LSD(0.05) | 3.4 | 0.8 | 0.4 | 0.9 | 1.0 |

bold : highest or earliest value within a column

bold : equal value to highest or earliest value within a column based LSD(0.05)

**2021 MAJOR AGRONOMIC TRAITS, STEM SOLIDNESS AND SAW FLY CUT OF SOME ENTRIES FOR THE
ADVANCED SPRING WHEAT NURSERY GROWN UNDER RAIN-FED CONDITION**

| ID | YIELD (BU/AC) | TEST WEIGHT (LB/BU) | PROTEIN (%) | STEM SOLIDNESS (5-25) | SAW FLY CUT (%) | SAW FLY CUT (%) | SAW FLY CUT (%) | SAW FLY CUT (%) |
|-----------------|------------------|---------------------------|----------------|-----------------------------|--------------------|--------------------|--------------------|--------------------|
| | | | | | FORT BENTON | HAVRE | RUDYARD | COMBINED |
| MT 1939 | 38.8 | 58.2 | 15.2 | 19.7 | 29.7 | 31.7 | 16.1 | 25.8 |
| DAGMAR | 37.9 | 59.3 | 16.1 | 19.7 | 32.8 | 3.7 | 1.9 | 12.8 |
| MT 1809 | 37.5 | 57.8 | 15.9 | 13.1 | 33.7 | 25.0 | 16.6 | 25.1 |
| NS PRESSER CLP | 37.3 | 57.7 | 15.2 | 7.2 | 59.6 | 23.3 | 17.8 | 33.6 |
| MT 1934 | 37.2 | 58.4 | 15.5 | 15.6 | 31.0 | 15.0 | 15.6 | 20.5 |
| MT 1931 | 37.0 | 58.2 | 15.5 | 7.1 | 65.3 | 73.3 | 14.8 | 51.1 |
| VIDA | 36.9 | 58.5 | 15.0 | 14.5 | 28.4 | 15.0 | 18.3 | 20.6 |
| LCS ASCENT | 36.8 | 60.4 | 15.3 | 7.2 | 53.0 | 55.0 | 8.8 | 38.9 |
| WB 9516 | 36.6 | 60.2 | 15.1 | 8.6 | 39.1 | 35.0 | 8.0 | 27.4 |
| MT SIDNEY | 36.1 | 58.3 | 15.8 | 11.3 | 62.2 | 25.0 | 18.5 | 35.2 |
| MT 1938 | 36.1 | 58.0 | 15.8 | 19.4 | 42.7 | 21.7 | 17.5 | 27.3 |
| BZ917-277 | 35.9 | 59.6 | 15.7 | 12.7 | 24.7 | 15.0 | 12.3 | 17.3 |
| WB 9879 CLP | 34.6 | 58.1 | 16.1 | 23.4 | 17.6 | 3.7 | 3.8 | 8.3 |
| BZ917-252 | 34.5 | 54.8 | 16.2 | 11.1 | 61.4 | 41.7 | 16.7 | 39.9 |
| LANNING | 34.4 | 57.6 | 16.1 | 7.3 | 68.6 | 56.7 | 16.9 | 47.4 |
| SY ROCKFORD | 34.3 | 56.8 | 15.8 | 8.1 | 68.8 | 65.0 | 17.2 | 50.3 |
| WB 9719 | 34.2 | 60.3 | 15.4 | 6.4 | 37.7 | 63.3 | 9.3 | 36.8 |
| REEDER | 34.0 | 58.7 | 15.7 | 7.8 | 43.1 | 46.7 | 15.8 | 35.2 |
| WB 9590 | 33.7 | 59.2 | 16.2 | 8.1 | 54.1 | 53.3 | 3.1 | 36.8 |
| WB GUNNISON | 33.4 | 59.0 | 15.3 | 11.8 | 16.2 | 1.0 | 0.7 | 6.0 |
| SY LONGMIRE | 33.0 | 59.2 | 16.0 | 21.1 | 41.3 | 11.7 | 8.0 | 20.3 |
| LCS BUSTER | 33.0 | 56.6 | 14.4 | 20.0 | 22.4 | 1.0 | 5.4 | 9.6 |
| CORBIN | 32.9 | 59.1 | 15.9 | 12.9 | 29.4 | 8.3 | 0.9 | 12.9 |
| AAC CONCORD | 32.8 | 57.7 | 16.0 | 24.1 | 19.0 | 1.0 | 2.6 | 7.5 |
| CHOTEAU | 32.8 | 58.1 | 16.0 | 20.7 | 25.0 | 6.7 | 8.8 | 13.5 |
| AP GUNSMOKE CL2 | 32.8 | 57.9 | 16.7 | 7.2 | 61.4 | 60.0 | 7.8 | 43.1 |
| SY INGMAR | 32.7 | 58.5 | 16.5 | 7.7 | 52.1 | 45.0 | 7.1 | 34.7 |
| DUCLAIR | 32.2 | 57.1 | 15.9 | 20.0 | 26.6 | 5.0 | 6.5 | 12.7 |

bold : highest or earliest value within a column

bold : equal value to highest or earliest value within a column based LSD(0.05)

2021 ADVANCED SPRING WHEAT NURSERY, KALISPELL (HIGH RAINFALL)

| ENTRY | VARIETY / LINE | YIELD (BU/AC) | TEST WEIGHT (LB/BU) | PROTEIN (%) | HEADING DATE (JULIAN) | PLANT HEIGHT (IN.) | 1,000 KERNEL WEIGHT (G) |
|-------|--------------------|------------------|---------------------------|----------------|-----------------------------|--------------------------|-------------------------------|
| 50 | LCS BUSTER | 119.1 | 57.2 | 10.9 | 182.3 | 34.7 | 37.3 |
| 64 | WB 9516 | 114.5 | 60.7 | 12.6 | 180.3 | 31.8 | 43.5 |
| 16 | MT SIDNEY | 113.7 | 60.4 | 11.4 | 177.0 | 36.4 | 41.3 |
| 20 | MT 1927 | 110.8 | 58.1 | 11.3 | 178.0 | 35.9 | 39.6 |
| 24 | MT 1939 | 110.2 | 59.3 | 11.4 | 175.0 | 33.5 | 42.2 |
| 13 | NS PRESSER CLP | 107.1 | 59.4 | 11.2 | 178.5 | 36.0 | 39.2 |
| 53 | MS RANCHERO | 105.5 | 59.0 | 10.0 | 175.2 | 38.3 | 38.4 |
| 17 | MT 1809 | 105.3 | 59.3 | 10.1 | 177.7 | 37.0 | 38.0 |
| 55 | MS COBRA | 105.2 | 60.2 | 12.5 | 176.8 | 33.0 | 33.7 |
| 22 | MT 1934 | 103.1 | 59.8 | 11.0 | 175.6 | 33.5 | 37.3 |
| 2 | SY ROCKFORD | 103.0 | 58.1 | 11.6 | 179.5 | 32.5 | 37.0 |
| 62 | WB 9590 | 102.0 | 59.3 | 11.8 | 178.7 | 29.8 | 39.3 |
| 51 | LCS ASCENT | 101.0 | 59.8 | 10.3 | 175.7 | 35.7 | 34.7 |
| 18 | MT 1855 | 100.9 | 59.7 | 10.5 | 177.1 | 35.8 | 39.1 |
| 25 | MT 1951 | 100.0 | 56.8 | 12.5 | 178.5 | 37.0 | 35.0 |
| 30 | BZ917-252 | 99.1 | 56.6 | 11.4 | 179.4 | 30.8 | 34.6 |
| 4 | CORBIN | 98.7 | 59.9 | 10.2 | 175.8 | 34.7 | 44.7 |
| 59 | AP SMITH | 98.2 | 60.4 | 12.7 | 178.4 | 31.5 | 34.1 |
| 48 | BZ917-277 | 98.2 | 60.8 | 10.9 | 176.9 | 36.0 | 35.4 |
| 57 | SY LONGMIRE | 97.3 | 61.1 | 10.5 | 176.6 | 32.7 | 36.1 |
| 58 | SY 611 CL2 | 96.9 | 61.1 | 10.3 | 177.0 | 31.4 | 34.8 |
| 19 | MT 1904 | 96.6 | 60.6 | 9.9 | 177.1 | 36.9 | 35.5 |
| 63 | WB 9719 | 96.5 | 62.6 | 10.8 | 179.4 | 32.7 | 37.4 |
| 3 | WB GUNNISON | 96.0 | 60.7 | 10.6 | 178.1 | 32.6 | 44.1 |
| 52 | LNR 1713 | 95.6 | 59.7 | 9.7 | 178.5 | 34.9 | 36.6 |
| 12 | LANNING | 95.3 | 59.8 | 11.2 | 176.9 | 34.4 | 38.1 |
| 6 | REEDER | 95.2 | 61.2 | 11.2 | 178.6 | 34.6 | 39.1 |
| 9 | VIDA | 95.0 | 59.8 | 10.5 | 177.7 | 35.7 | 39.4 |
| 7 | MCNEAL | 91.8 | 60.2 | 10.9 | 178.1 | 35.1 | 39.7 |
| 10 | DUCLAIR | 91.7 | 59.1 | 10.6 | 175.1 | 35.7 | 37.2 |
| 21 | MT 1931 | 91.5 | 59.2 | 10.8 | 175.2 | 32.7 | 43.5 |
| 23 | MT 1938 | 90.8 | 58.9 | 10.7 | 176.9 | 34.1 | 37.1 |
| 60 | AP GUNSMOKE CL2 | 89.6 | 59.2 | 10.4 | 176.2 | 34.1 | 36.0 |
| 1 | SY INGMAR | 88.4 | 61.1 | 11.3 | 177.1 | 30.5 | 34.7 |
| 56 | SY McCLOUD | 88.4 | 61.7 | 10.8 | 176.0 | 33.2 | 40.2 |
| 15 | WB 9879 CLP | 84.5 | 59.3 | 10.7 | 178.0 | 33.1 | 35.2 |
| 8 | CHOTEAU | 84.5 | 59.4 | 10.3 | 176.0 | 36.1 | 37.3 |
| 14 | DAGMAR | 83.8 | 59.5 | 10.5 | 175.2 | 33.5 | 41.2 |
| 11 | EGAN | 80.0 | 59.4 | 12.0 | 177.9 | 32.7 | 34.5 |
| 54 | AAC CONCORD | 79.4 | 58.9 | 10.4 | 178.3 | 40.7 | 39.8 |
| 61 | 509-2 | 77.9 | 59.6 | 10.0 | 175.0 | 31.0 | 35.8 |
| | MEAN (n=64) | 97.5 | 59.6 | 11.0 | 176.8 | 34.4 | 38.3 |
| | C.V. | 6.7 | 0.7 | 4.6 | 0.6 | 3.5 | 2.5 |
| | Prob. (ENTRY) | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| | LSD(0.05) | 11.3 | 0.8 | 0.9 | 1.7 | 2.1 | 1.7 |

bold : highest or earliest value within a column

bold : equal value to highest or earliest value within a column based LSD(0.05)

2021 ADVANCED SPRING WHEAT NURSERY, BOZEMAN (DRY)

| ENTRY | VARIETY / LINE | YIELD (BU/AC) | TEST WEIGHT (LB/BU) | PROTEIN (%) | HEADING DATE (JULIAN) | PLANT HEIGHT (IN.) | STEM SOLIDNESS (5-25) |
|--------------------|-----------------|------------------|---------------------------|----------------|-----------------------------|--------------------------|-----------------------------|
| 24 | MT 1939 | 65.8 | 60.4 | 14.4 | 175.0 | 27.6 | 19.7 |
| 16 | MT SIDNEY | 64.3 | 59.4 | 14.7 | 175.7 | 30.9 | 11.3 |
| 22 | MT 1934 | 62.9 | 59.4 | 15.8 | 175.0 | 28.5 | 15.6 |
| 14 | DAGMAR | 62.7 | 60.8 | 15.8 | 174.7 | 29.0 | 19.7 |
| 23 | MT 1938 | 61.3 | 59.0 | 15.1 | 174.0 | 28.7 | 19.4 |
| 17 | MT 1809 | 61.3 | 58.4 | 15.4 | 175.3 | 28.5 | 13.1 |
| 21 | MT 1931 | 61.3 | 59.5 | 15.1 | 173.7 | 28.3 | 7.1 |
| 18 | MT 1855 | 61.1 | 60.2 | 14.3 | 177.3 | 29.7 | 17.9 |
| 9 | VIDA | 60.8 | 59.6 | 14.1 | 176.0 | 28.5 | 14.5 |
| 53 | MS RANCHERO | 60.1 | 59.1 | 14.9 | 173.7 | 29.4 | 8.2 |
| 64 | WB 9516 | 59.5 | 61.4 | 13.9 | 177.0 | 25.6 | 8.6 |
| 63 | WB 9719 | 59.0 | 62.9 | 14.6 | 178.0 | 25.1 | 6.4 |
| 13 | NS PRESSER CLP | 58.7 | 58.6 | 15.3 | 178.7 | 29.6 | 7.2 |
| 52 | LNR 1713 | 58.3 | 59.3 | 14.5 | 175.0 | 28.6 | 7.5 |
| 2 | SY Rockford | 58.3 | 58.2 | 14.8 | 179.0 | 26.1 | 8.1 |
| 12 | LANNING | 58.3 | 59.2 | 15.6 | 174.7 | 27.5 | 7.3 |
| 19 | MT 1904 | 58.1 | 61.2 | 15.2 | 176.7 | 28.4 | 22.3 |
| 56 | SY McCLOUD | 58.0 | 61.9 | 14.2 | 175.7 | 27.2 | 7.7 |
| 48 | BZ917-277 | 57.9 | 60.2 | 15.2 | 176.0 | 26.0 | 12.7 |
| 51 | LCS ASCENT | 57.9 | 59.8 | 15.1 | 174.3 | 28.9 | 7.2 |
| 50 | LCS BUSTER | 57.4 | 56.7 | 12.6 | 179.0 | 26.4 | 20.0 |
| 20 | MT 1927 | 57.2 | 57.9 | 15.2 | 177.7 | 28.8 | 18.1 |
| 15 | WB 9879 CLP | 56.3 | 59.8 | 15.0 | 176.0 | 28.3 | 23.4 |
| 30 | BZ917-252 | 56.2 | 55.7 | 14.7 | 178.3 | 24.6 | 11.1 |
| 61 | 509-2 | 56.1 | 59.6 | 14.7 | 174.7 | 25.8 | 10.7 |
| 6 | REEDER | 56.0 | 60.9 | 14.8 | 176.3 | 29.3 | 7.8 |
| 25 | MT 1951 | 55.5 | 57.3 | 16.2 | 175.3 | 30.7 | 8.0 |
| 8 | CHOTEAU | 55.0 | 59.4 | 14.6 | 175.0 | 28.5 | 20.7 |
| 59 | AP SMITH | 54.8 | 58.7 | 15.7 | 178.3 | 24.2 | 8.6 |
| 1 | SY INGMAR | 54.5 | 59.8 | 15.6 | 176.3 | 25.5 | 7.7 |
| 55 | MS COBRA | 54.4 | 59.9 | 15.6 | 174.7 | 27.7 | 6.7 |
| 11 | EGAN | 54.0 | 58.8 | 16.4 | 176.7 | 27.1 | 7.8 |
| 58 | SY 611 CL2 | 53.7 | 61.3 | 14.7 | 176.3 | 23.8 | 7.9 |
| 62 | WB 9590 | 53.6 | 59.7 | 15.3 | 175.0 | 22.9 | 8.1 |
| 60 | AP GUNSMOKE CL2 | 53.2 | 58.1 | 15.8 | 175.0 | 26.1 | 7.2 |
| 57 | SY LONGMIRE | 52.9 | 60.0 | 15.2 | 176.0 | 27.5 | 21.1 |
| 10 | DUCLAIR | 52.8 | 58.5 | 14.7 | 174.0 | 29.5 | 20.0 |
| 3 | WB GUNNISON | 51.8 | 60.7 | 14.5 | 175.0 | 26.2 | 11.8 |
| 54 | AAC CONCORD | 51.5 | 58.4 | 15.7 | 177.7 | 31.7 | 24.1 |
| 4 | CORBIN | 50.4 | 60.4 | 14.2 | 174.7 | 27.5 | 12.9 |
| 7 | MCNEAL | 49.9 | 58.5 | 15.0 | 177.0 | 28.0 | 8.3 |
| MEAN (n=64) | | 57.1 | 59.6 | 15.0 | 175.6 | 28.1 | 13.3 |
| C.V. | | 3.5 | 1 rep | 1 rep | 0.3 | 2.7 | 8.3 |
| Prob. (ENTRY) | | <0.001 | 1 rep | 1 rep | <0.001 | <0.001 | <0.001 |
| LSD(0.05) | | 3.5 | 1 rep | 1 rep | 1.0 | 1.3 | 1.8 |

bold : highest or earliest value within a column

bold : equal value to highest or earliest value within a column based LSD(0.05)

2021 ADVANCED SPRING WHEAT NURSERY, HUNTLEY (DRY)

| ENTRY | VARIETY / LINE | YIELD (BU/AC) | TEST WEIGHT (LB/BU) | PROTEIN (%) | PLANT HEIGHT (IN.) |
|-------|--------------------|------------------|---------------------------|----------------|--------------------------|
| 24 | MT 1939 | 50.7 | 57.7 | 16.3 | 27.7 |
| 21 | MT 1931 | 48.9 | 56.4 | 16.6 | 32.8 |
| 10 | DUCLAIR | 47.1 | 55.8 | 17.1 | 29.4 |
| 12 | LANNING | 45.8 | 56.6 | 17.3 | 27.9 |
| 14 | DAGMAR | 44.1 | 58.3 | 17.6 | 31.6 |
| 23 | MT 1938 | 43.9 | 56.9 | 17.0 | 29.3 |
| 57 | SY LONGMIRE | 43.6 | 57.0 | 17.5 | 27.8 |
| 9 | VIDA | 42.8 | 57.2 | 16.7 | 28.3 |
| 20 | MT 1927 | 42.5 | 55.6 | 17.5 | 29.4 |
| 17 | MT 1809 | 41.9 | 56.0 | 17.4 | 28.8 |
| 58 | SY 611 CL2 | 41.6 | 55.8 | 17.3 | 29.9 |
| 6 | REEDER | 41.5 | 58.0 | 17.0 | 28.9 |
| 48 | BZ917-277 | 41.2 | 59.7 | 17.3 | 26.7 |
| 19 | MT 1904 | 40.8 | 59.7 | 17.2 | 28.6 |
| 2 | SY Rockford | 40.8 | 56.6 | 17.0 | 27.3 |
| 16 | MT SIDNEY | 40.4 | 58.5 | 16.7 | 31.5 |
| 64 | WB 9516 | 40.3 | 59.8 | 16.3 | 28.0 |
| 1 | SY INGMAR | 40.3 | 55.4 | 18.5 | 29.4 |
| 22 | MT 1934 | 40.3 | 57.2 | 17.2 | 32.2 |
| 15 | WB 9879 CLP | 39.5 | 57.8 | 17.3 | 29.3 |
| 30 | BZ917-252 | 39.3 | 51.9 | 19.2 | 28.1 |
| 18 | MT 1855 | 39.2 | 58.4 | 17.0 | 28.6 |
| 8 | CHOTEAU | 38.7 | 57.6 | 17.3 | 30.0 |
| 63 | WB 9719 | 38.7 | 57.5 | 17.0 | 28.1 |
| 13 | NS PRESSER CLP | 38.2 | 56.8 | 17.0 | 26.8 |
| 61 | 509-2 | 38.0 | 56.2 | 18.1 | 28.0 |
| 60 | AP GUNSMOKE CL2 | 37.9 | 56.2 | 18.9 | 27.6 |
| 3 | WB GUNNISON | 37.9 | 57.1 | 17.3 | 25.7 |
| 25 | MT 1951 | 37.2 | 54.8 | 18.7 | 32.5 |
| 59 | AP SMITH | 36.8 | 55.5 | 17.7 | 25.9 |
| 52 | LNR 1713 | 36.6 | 56.3 | 16.8 | 28.5 |
| 54 | AAC CONCORD | 36.6 | 58.6 | 17.7 | 30.2 |
| 51 | LCS ASCENT | 36.5 | 59.5 | 16.9 | 30.3 |
| 11 | EGAN | 36.3 | 56.1 | 19.5 | 27.2 |
| 56 | SY McCLOUD | 36.3 | 58.2 | 17.9 | 28.2 |
| 53 | MS RANCHERO | 36.0 | 57.2 | 16.9 | 32.7 |
| 4 | CORBIN | 36.0 | 58.5 | 17.1 | 31.4 |
| 62 | WB 9590 | 35.3 | 56.9 | 18.2 | 25.7 |
| 7 | MCNEAL | 34.7 | 57.4 | 18.3 | 27.3 |
| 55 | MS COBRA | 33.4 | 58.7 | 18.2 | 28.6 |
| 50 | LCS BUSTER | 25.8 | 58.1 | 16.1 | 27.8 |
| | MEAN (n=64) | 39.7 | 57.3 | 17.3 | 29.2 |
| | C.V. | 12.4 | 1.3 | 2.0 | 7.4 |
| | Prob. (ENTRY) | <0.001 | <0.001 | <0.001 | <0.001 |
| | LSD(0.05) | 8.4 | 1.3 | 0.6 | 3.5 |

bold : highest or earliest value within a column

bold : equal value to highest or earliest value within a column based LSD(0.05)

2021 ADVANCED SPRING WHEAT NURSERY, MOCCASIN (DRY)

| ENTRY | VARIETY / LINE | YIELD (BU/AC) | TEST WEIGHT (LB/BU) | PROTEIN (%) | HEADING DATE (JULIAN) | PLANT HEIGHT (IN.) |
|--------------------|-----------------|------------------|---------------------------|----------------|-----------------------------|--------------------------|
| 21 | MT 1931 | 30.0 | 55.0 | 17.4 | 178.4 | 20.4 |
| 19 | MT 1904 | 28.3 | 58.1 | 17.2 | 180.2 | 18.6 |
| 61 | 509-2 | 28.2 | 56.1 | 17.0 | 177.7 | 21.1 |
| 51 | LCS ASCENT | 27.9 | 58.3 | 16.7 | 177.9 | 20.6 |
| 2 | SY Rockford | 27.8 | 55.0 | 17.3 | 181.3 | 20.9 |
| 24 | MT 1939 | 27.5 | 55.1 | 17.2 | 178.1 | 20.7 |
| 22 | MT 1934 | 27.3 | 55.7 | 17.0 | 178.6 | 21.9 |
| 64 | WB 9516 | 26.9 | 58.9 | 16.8 | 179.3 | 20.2 |
| 55 | MS COBRA | 26.7 | 57.7 | 17.6 | 178.7 | 20.5 |
| 13 | NS PRESSER CLP | 26.4 | 54.8 | 17.5 | 181.4 | 20.2 |
| 7 | MCNEAL | 25.8 | 56.7 | 17.1 | 180.3 | 21.8 |
| 16 | MT SIDNEY | 25.6 | 56.1 | 17.8 | 177.7 | 21.1 |
| 17 | MT 1809 | 25.4 | 54.8 | 17.5 | 179.3 | 19.4 |
| 56 | SY McCLOUD | 25.2 | 57.6 | 17.8 | 178.0 | 22.1 |
| 53 | MS RANCHERO | 25.1 | 56.3 | 16.9 | 177.3 | 21.4 |
| 18 | MT 1855 | 25.0 | 55.5 | 17.6 | 179.3 | 20.3 |
| 48 | BZ917-277 | 24.2 | 58.2 | 17.3 | 180.2 | 19.5 |
| 12 | LANNING | 24.1 | 54.8 | 17.5 | 177.2 | 21.8 |
| 9 | VIDA | 24.0 | 55.6 | 17.2 | 180.0 | 18.9 |
| 59 | AP SMITH | 23.7 | 56.0 | 18.1 | 179.7 | 19.0 |
| 15 | WB 9879 CLP | 23.6 | 55.6 | 17.7 | 179.7 | 18.4 |
| 60 | AP GUNSMOKE CL2 | 23.6 | 55.1 | 18.4 | 178.0 | 20.7 |
| 62 | WB 9590 | 23.6 | 56.1 | 18.2 | 178.1 | 18.4 |
| 57 | SY LONGMIRE | 23.4 | 56.8 | 18.1 | 179.2 | 20.3 |
| 52 | LNR 1713 | 23.4 | 55.6 | 17.2 | 178.7 | 21.6 |
| 23 | MT 1938 | 23.1 | 54.9 | 17.3 | 178.0 | 19.0 |
| 30 | BZ917-252 | 23.1 | 51.0 | 18.6 | 180.9 | 18.0 |
| 54 | AAC CONCORD | 23.1 | 55.7 | 18.0 | 179.8 | 19.9 |
| 14 | DAGMAR | 22.9 | 56.6 | 17.3 | 178.1 | 18.8 |
| 63 | WB 9719 | 22.8 | 59.0 | 16.8 | 181.4 | 18.7 |
| 4 | CORBIN | 22.7 | 57.4 | 17.8 | 177.3 | 20.3 |
| 1 | SY INGMAR | 22.5 | 55.1 | 18.9 | 179.6 | 19.2 |
| 6 | REEDER | 22.5 | 56.7 | 17.7 | 179.6 | 19.5 |
| 25 | MT 1951 | 22.5 | 52.8 | 18.2 | 179.1 | 20.7 |
| 20 | MT 1927 | 22.2 | 52.5 | 18.3 | 180.4 | 18.3 |
| 58 | SY 611 CL2 | 22.1 | 57.5 | 17.3 | 178.8 | 19.6 |
| 10 | DUCLAIR | 22.1 | 54.6 | 17.4 | 177.4 | 20.1 |
| 8 | CHOTEAU | 21.9 | 54.8 | 18.1 | 179.0 | 17.8 |
| 3 | WB GUNNISON | 21.9 | 56.8 | 16.9 | 179.5 | 19.0 |
| 11 | EGAN | 21.6 | 55.0 | 18.5 | 180.3 | 20.0 |
| 50 | LCS BUSTER | 20.5 | 53.4 | 17.5 | 181.9 | 18.0 |
| MEAN (n=64) | | 24.3 | 55.9 | 17.5 | 178.7 | 20.2 |
| C.V. | | 13.2 | 1.0 | 2.3 | 0.4 | 5.1 |
| Prob. (ENTRY) | | <0.05 | <0.001 | <0.001 | <0.001 | <0.001 |
| LSD(0.05) | | 5.6 | 0.9 | 0.7 | 1.2 | 1.8 |

bold : highest or earliest value within a column

bold : equal value to highest or earliest value within a column based LSD(0.05)

2021 ADVANCED SPRING WHEAT NURSERY, CONRAD (DRY)

| ENTRY | VARIETY / LINE | YIELD (BU/AC) | TEST WEIGHT (LB/BU) | PROTEIN (%) | PLANT HEIGHT (IN.) |
|--------------------|-----------------|------------------|---------------------------|----------------|--------------------------|
| 24 | MT 1939 | 56.8 | 60.1 | 13.3 | 28.7 |
| 51 | LCS ASCENT | 53.3 | 61.1 | 13.8 | 28.3 |
| 18 | MT 1855 | 53.0 | 60.0 | 13.9 | 31.4 |
| 64 | WB 9516 | 51.7 | 61.2 | 12.4 | 27.5 |
| 52 | LNR 1713 | 51.6 | 60.3 | 13.5 | 28.9 |
| 50 | LCS BUSTER | 51.1 | 57.4 | 12.3 | 29.5 |
| 53 | MS RANCHERO | 50.7 | 59.9 | 13.1 | 31.0 |
| 19 | MT 1904 | 50.3 | 60.7 | 13.4 | 29.7 |
| 14 | DAGMAR | 50.2 | 60.8 | 14.5 | 27.8 |
| 20 | MT 1927 | 50.1 | 57.0 | 13.6 | 29.5 |
| 21 | MT 1931 | 50.0 | 60.0 | 13.1 | 27.8 |
| 22 | MT 1934 | 49.8 | 60.0 | 14.6 | 28.2 |
| 13 | NS PRESSER CLP | 49.5 | 60.0 | 12.7 | 31.8 |
| 15 | WB 9879 CLP | 49.1 | 59.7 | 13.7 | 27.9 |
| 30 | BZ917-252 | 48.2 | 57.3 | 13.8 | 26.5 |
| 25 | MT 1951 | 47.5 | 57.0 | 14.2 | 30.1 |
| 4 | CORBIN | 46.8 | 60.6 | 13.7 | 29.1 |
| 16 | MT SIDNEY | 46.7 | 60.2 | 13.5 | 29.6 |
| 2 | SY ROCKFORD | 46.7 | 59.1 | 13.6 | 27.9 |
| 6 | REEDER | 45.9 | 60.9 | 13.2 | 29.0 |
| 61 | 509-2 | 45.6 | 59.8 | 14.2 | 28.8 |
| 3 | WB GUNNISON | 45.6 | 61.8 | 12.4 | 27.8 |
| 12 | LANNING | 45.3 | 59.5 | 12.9 | 27.3 |
| 11 | EGAN | 45.3 | 58.8 | 14.4 | 27.9 |
| 62 | WB 9590 | 45.0 | 60.9 | 13.8 | 24.2 |
| 9 | VIDA | 44.8 | 60.6 | 12.8 | 29.7 |
| 48 | BZ917-277 | 44.3 | 61.0 | 13.4 | 29.9 |
| 63 | WB 9719 | 44.2 | 64.1 | 12.7 | 26.1 |
| 23 | MT 1938 | 43.8 | 59.4 | 14.5 | 26.7 |
| 57 | SY LONGMIRE | 43.6 | 61.3 | 13.4 | 27.8 |
| 17 | MT 1809 | 43.6 | 59.5 | 13.0 | 29.3 |
| 8 | CHOTEAU | 43.3 | 59.8 | 13.2 | 29.1 |
| 56 | SY McCLOUD | 43.2 | 61.5 | 14.7 | 26.6 |
| 58 | SY 611 CL2 | 42.3 | 61.9 | 14.2 | 24.5 |
| 55 | MS COBRA | 41.2 | 61.1 | 13.3 | 27.7 |
| 54 | AAC CONCORD | 40.7 | 58.9 | 13.3 | 31.4 |
| 60 | AP GUNSMOKE CL2 | 40.3 | 60.1 | 14.9 | 26.0 |
| 1 | SY INGMAR | 40.0 | 60.8 | 14.4 | 25.3 |
| 10 | DUCLAIR | 38.4 | 59.4 | 13.9 | 27.7 |
| 59 | AP SMITH | 36.7 | 60.1 | 14.6 | 25.4 |
| 7 | MCNEAL | 36.5 | 60.1 | 12.9 | 28.2 |
| MEAN (n=64) | | 46.4 | 60.1 | 13.7 | 28.4 |
| C.V. | | 15.0 | 0.9 | 4.9 | 4.3 |
| Prob. (ENTRY) | | ns | <0.001 | <0.001 | <0.001 |
| LSD(0.05) | | - | 1.0 | 1.1 | 2.1 |

bold : highest or earliest value within a column

bold : equal value to highest or earliest value within a column based LSD(0.05)

2021 ADVANCED SPRING WHEAT NURSERY, HAVRE (DRY)

| ENTRY | VARIETY / LINE | YIELD (BU/AC) | TEST WEIGHT (LB/BU) | PROTEIN (%) | HEADING DATE (JULIAN) | PLANT HEIGHT (IN.) | SAW FYL CUT (%) |
|--------------------|-----------------|------------------|---------------------------|----------------|-----------------------------|--------------------------|-----------------------|
| 48 | BZ917-277 | 29.2 | 59.2 | 15.7 | 173.1 | 24.6 | 15.0 |
| 4 | CORBIN | 28.9 | 59.4 | 16.4 | 170.3 | 22.9 | 8.3 |
| 3 | WB GUNNISON | 28.7 | 58.7 | 15.5 | 173.7 | 22.2 | 1.0 |
| 17 | MT 1809 | 27.6 | 58.9 | 16.0 | 172.6 | 22.6 | 25.0 |
| 50 | LCS BUSTER | 26.9 | 56.4 | 14.6 | 176.1 | 21.0 | 1.0 |
| 54 | AAC CONCORD | 26.8 | 57.1 | 16.3 | 173.0 | 25.5 | 1.0 |
| 19 | MT 1904 | 26.8 | 59.4 | 16.4 | 173.5 | 22.8 | 2.3 |
| 30 | BZ917-252 | 26.5 | 54.4 | 16.3 | 173.8 | 21.4 | 41.7 |
| 13 | NS PRESSER CLP | 26.3 | 58.3 | 15.3 | 175.0 | 24.0 | 23.3 |
| 23 | MT 1938 | 26.2 | 58.6 | 16.2 | 172.3 | 23.5 | 21.7 |
| 9 | VIDA | 25.6 | 58.2 | 15.5 | 173.6 | 24.9 | 15.0 |
| 20 | MT 1927 | 25.4 | 56.2 | 16.9 | 174.6 | 23.9 | 6.7 |
| 14 | DAGMAR | 25.4 | 59.6 | 16.6 | 170.7 | 22.3 | 3.7 |
| 22 | MT 1934 | 25.1 | 58.4 | 15.6 | 169.5 | 22.0 | 15.0 |
| 8 | CHOTEAU | 24.8 | 57.4 | 16.4 | 173.3 | 22.9 | 6.7 |
| 15 | WB 9879 CLP | 24.5 | 57.7 | 16.7 | 174.1 | 22.2 | 3.7 |
| 53 | MS RANCHERO | 24.4 | 58.5 | 15.5 | 170.4 | 20.9 | 50.0 |
| 64 | WB 9516 | 24.4 | 59.8 | 15.5 | 172.7 | 23.9 | 35.0 |
| 61 | 509-2 | 24.0 | 58.1 | 16.0 | 170.8 | 19.8 | 71.7 |
| 2 | SY Rockford | 23.9 | 56.9 | 16.3 | 173.4 | 23.4 | 65.0 |
| 24 | MT 1939 | 23.7 | 57.3 | 16.1 | 172.7 | 22.0 | 31.7 |
| 60 | AP GUNSMOKE CL2 | 23.6 | 57.3 | 16.5 | 171.9 | 20.5 | 60.0 |
| 1 | SY INGMAR | 23.4 | 59.3 | 16.6 | 173.6 | 21.9 | 45.0 |
| 16 | MT SIDNEY | 23.0 | 58.0 | 16.4 | 173.6 | 23.2 | 25.0 |
| 57 | SY LONGMIRE | 22.7 | 59.2 | 16.3 | 172.6 | 21.9 | 11.7 |
| 56 | SY McCLOUD | 22.6 | 59.7 | 16.3 | 170.9 | 22.8 | 71.7 |
| 51 | LCS ASCENT | 21.9 | 60.9 | 15.6 | 170.4 | 23.8 | 55.0 |
| 12 | LANNING | 21.9 | 58.3 | 16.4 | 169.3 | 18.7 | 56.7 |
| 59 | AP SMITH | 21.9 | 58.4 | 16.4 | 173.3 | 19.6 | 60.0 |
| 10 | DUCLAIR | 21.8 | 56.9 | 16.7 | 171.8 | 22.9 | 5.0 |
| 25 | MT 1951 | 21.8 | 53.9 | 17.2 | 172.2 | 24.2 | 55.0 |
| 18 | MT 1855 | 21.4 | 58.1 | 17.3 | 174.5 | 25.6 | 13.3 |
| 62 | WB 9590 | 21.1 | 60.5 | 16.5 | 171.0 | 19.0 | 53.3 |
| 7 | MCNEAL | 21.1 | 57.4 | 15.9 | 173.3 | 23.9 | 48.3 |
| 21 | MT 1931 | 21.0 | 59.1 | 16.0 | 169.7 | 18.5 | 73.3 |
| 6 | REEDER | 21.0 | 58.2 | 15.9 | 173.2 | 24.1 | 46.7 |
| 63 | WB 9719 | 20.9 | 59.4 | 15.9 | 173.8 | 22.7 | 63.3 |
| 11 | EGAN | 20.2 | 56.2 | 17.1 | 173.7 | 23.8 | 58.3 |
| 55 | MS COBRA | 19.6 | 59.1 | 16.5 | 170.8 | 21.8 | 46.7 |
| 52 | LNR 1713 | 19.5 | 59.2 | 16.0 | 172.6 | 22.2 | 35.0 |
| 58 | SY 611 CL2 | 18.9 | 59.2 | 15.9 | 172.9 | 20.2 | 68.3 |
| MEAN (n=64) | | 23.5 | 58.3 | 16.2 | 172.1 | 22.6 | 32.2 |
| C.V. | | 5.5 | 1.1 | 1.5 | 0.5 | 4.0 | 24.2 |
| Prob. (ENTRY) | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| LSD(0.05) | | 2.2 | 1.1 | 0.4 | 1.4 | 1.5 | 13.3 |

bold : highest or earliest value within a column

bold : equal value to highest or earliest value within a column based LSD(0.05)

2021 ADVANCED SPRING WHEAT NURSERY, SIDNEY (DRY)

| ENTRY | VARIETY / LINE | YIELD (BU/AC) | TEST WEIGHT (LB/BU) | PROTEIN (%) | HEADING DATE (JULIAN) | PLANT HEIGHT (IN.) |
|--------------------|-----------------|------------------|---------------------------|----------------|-----------------------------|--------------------------|
| 22 | MT 1934 | 58.6 | 59.8 | 13.4 | 166.7 | 25.7 |
| 14 | DAGMAR | 58.1 | 62.1 | 14.2 | 166.2 | 25.5 |
| 23 | MT 1938 | 57.3 | 60.1 | 14.0 | 167.3 | 24.9 |
| 21 | MT 1931 | 56.7 | 59.8 | 14.1 | 166.0 | 24.3 |
| 13 | NS PRESSER CLP | 55.5 | 57.9 | 14.4 | 171.2 | 28.3 |
| 24 | MT 1939 | 55.0 | 59.4 | 13.9 | 167.6 | 24.9 |
| 62 | WB 9590 | 53.6 | 61.3 | 14.6 | 166.8 | 22.3 |
| 51 | LCS ASCENT | 53.6 | 62.8 | 13.7 | 166.3 | 25.3 |
| 9 | VIDA | 53.1 | 59.8 | 13.7 | 169.1 | 25.5 |
| 48 | BZ917-277 | 52.2 | 60.5 | 14.8 | 169.8 | 26.1 |
| 17 | MT 1809 | 51.9 | 58.5 | 15.1 | 168.3 | 25.6 |
| 2 | SY Rockford | 51.4 | 57.6 | 15.1 | 171.2 | 25.2 |
| 16 | MT SIDNEY | 50.5 | 58.6 | 15.1 | 169.4 | 25.7 |
| 63 | WB 9719 | 50.4 | 61.8 | 14.6 | 170.1 | 24.1 |
| 6 | REEDER | 50.1 | 59.6 | 14.8 | 169.0 | 24.3 |
| 18 | MT 1855 | 49.9 | 56.6 | 15.1 | 170.6 | 29.3 |
| 61 | 509-2 | 49.9 | 60.6 | 14.0 | 166.7 | 22.2 |
| 55 | MS COBRA | 49.8 | 60.6 | 15.0 | 167.5 | 23.6 |
| 64 | WB 9516 | 49.7 | 61.8 | 14.3 | 170.4 | 25.8 |
| 1 | SY INGMAR | 49.4 | 60.0 | 14.7 | 168.9 | 24.7 |
| 58 | SY 611 CL2 | 49.4 | 59.7 | 15.2 | 168.8 | 24.0 |
| 30 | BZ917-252 | 49.3 | 55.5 | 14.9 | 169.9 | 23.6 |
| 25 | MT 1951 | 48.9 | 55.1 | 16.2 | 168.1 | 26.8 |
| 56 | SY McCLOUD | 48.9 | 61.1 | 15.1 | 168.4 | 23.3 |
| 12 | LANNING | 48.7 | 58.4 | 14.9 | 166.3 | 22.7 |
| 60 | AP GUNSMOKE CL2 | 48.6 | 59.2 | 15.2 | 167.8 | 23.7 |
| 59 | AP SMITH | 48.0 | 59.1 | 15.5 | 169.9 | 22.2 |
| 20 | MT 1927 | 47.6 | 55.9 | 16.0 | 171.4 | 26.6 |
| 52 | LNR 1713 | 47.6 | 59.2 | 14.6 | 166.9 | 25.5 |
| 53 | MS RANCHERO | 47.5 | 60.4 | 13.7 | 165.3 | 24.5 |
| 50 | LCS BUSTER | 47.1 | 56.2 | 13.9 | 172.9 | 26.0 |
| 19 | MT 1904 | 46.8 | 61.2 | 15.2 | 171.0 | 25.1 |
| 8 | CHOTEAU | 46.5 | 59.5 | 14.8 | 169.6 | 25.3 |
| 15 | WB 9879 CLP | 46.3 | 60.0 | 15.1 | 169.2 | 25.5 |
| 11 | EGAN | 44.6 | 57.2 | 16.4 | 170.6 | 27.1 |
| 3 | WB GUNNISON | 43.6 | 60.4 | 14.4 | 168.0 | 23.0 |
| 57 | SY LONGMIRE | 43.2 | 59.7 | 15.0 | 169.4 | 22.9 |
| 4 | CORBIN | 42.9 | 59.7 | 15.1 | 167.6 | 23.5 |
| 54 | AAC CONCORD | 42.3 | 59.2 | 15.7 | 169.0 | 27.1 |
| 7 | MCNEAL | 41.8 | 57.3 | 15.8 | 171.5 | 27.6 |
| 10 | DUCLAIR | 41.0 | 57.9 | 15.2 | 167.3 | 24.4 |
| MEAN (n=64) | | 49.9 | 59.5 | 14.7 | 168.4 | 25.1 |
| C.V. | | 6.2 | 1.0 | 3.1 | 0.5 | 5.6 |
| Prob. (ENTRY) | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| LSD(0.05) | | 5.3 | 1.0 | 0.8 | 1.4 | 2.3 |

bold : highest or earliest value within a column

bold : equal value to highest or earliest value within a column based LSD(0.05)

2021 ADVANCED SPRING WHEAT NURSERY, SIDNEY (IRRI)

| ENTRY | VARIETY / LINE | YIELD (BU/AC) | TEST WEIGHT (LB/BU) | PROTEIN (%) | HEADING DATE (JULIAN) | PLANT HEIGHT (IN.) |
|-------|--------------------|------------------|---------------------------|----------------|-----------------------------|--------------------------|
| 13 | NS PRESSER CLP | <u>77.4</u> | 63.6 | 13.1 | 178.9 | 31.0 |
| 9 | VIDA | <u>75.2</u> | 63.5 | 13.3 | 175.5 | 29.0 |
| 14 | DAGMAR | <u>74.0</u> | 63.3 | 14.8 | 172.8 | 31.8 |
| 18 | MT 1855 | <u>73.9</u> | 62.4 | 13.9 | 177.9 | 30.2 |
| 61 | 509-2 | <u>73.5</u> | 63.0 | 13.0 | 172.1 | 28.2 |
| 64 | WB 9516 | <u>73.2</u> | <u>65.6</u> | 13.7 | 174.8 | 28.2 |
| 22 | MT 1934 | <u>73.1</u> | 62.1 | 14.2 | 172.0 | 29.1 |
| 6 | REEDER | <u>72.9</u> | 62.6 | 14.7 | 174.4 | 30.1 |
| 63 | WB 9719 | <u>71.7</u> | <u>65.6</u> | 13.8 | 177.0 | 26.1 |
| 48 | BZ917-277 | <u>71.0</u> | 63.7 | 14.0 | 178.9 | 29.3 |
| 51 | LCS ASCENT | <u>70.6</u> | 64.3 | 13.4 | 172.0 | 29.1 |
| 21 | MT 1931 | <u>68.9</u> | 61.1 | 15.0 | 172.7 | 28.5 |
| 2 | SY Rockford | <u>68.5</u> | 62.4 | 14.0 | 177.6 | 29.1 |
| 57 | SY LONGMIRE | <u>68.4</u> | 62.8 | 14.1 | 174.2 | 27.8 |
| 17 | MT 1809 | <u>68.0</u> | 62.8 | 14.1 | 174.1 | 28.7 |
| 16 | MT SIDNEY | <u>67.7</u> | 63.1 | 13.7 | 176.3 | 31.6 |
| 23 | MT 1938 | <u>67.2</u> | 62.6 | 14.8 | 172.0 | 29.9 |
| 59 | AP SMITH | 66.9 | 62.6 | 14.8 | 177.8 | 27.3 |
| 56 | SY McCLOUD | 66.8 | 64.6 | 15.0 | 173.3 | 28.1 |
| 24 | MT 1939 | 66.2 | 61.6 | 14.1 | 173.8 | 28.6 |
| 3 | WB GUNNISON | 65.9 | 63.8 | 13.7 | 173.8 | 25.6 |
| 20 | MT 1927 | 64.9 | 60.7 | 15.1 | 178.6 | 31.2 |
| 30 | BZ917-252 | 64.9 | 59.0 | 15.3 | 177.6 | 24.7 |
| 52 | LNR 1713 | 64.4 | 63.3 | 13.6 | 173.6 | 29.4 |
| 62 | WB 9590 | 64.2 | 62.4 | 14.6 | 172.9 | 24.0 |
| 60 | AP GUNSMOKE CL2 | 64.0 | 62.3 | 14.4 | 173.9 | 27.7 |
| 58 | SY 611 CL2 | 63.9 | 62.7 | 14.3 | 172.8 | 25.9 |
| 15 | WB 9879 CLP | 63.9 | 62.7 | 15.0 | 174.9 | 28.5 |
| 8 | CHOTEAU | 63.5 | 62.4 | 14.4 | 175.5 | 28.2 |
| 1 | SY INGMAR | 63.4 | 62.8 | 14.7 | 175.6 | 28.9 |
| 53 | MS RANCHERO | 62.8 | 62.2 | 14.0 | 173.1 | 27.8 |
| 10 | DUCLAIR | 62.6 | 61.1 | 14.4 | 172.6 | 29.4 |
| 19 | MT 1904 | 61.7 | 64.6 | 13.2 | 176.4 | 30.2 |
| 12 | LANNING | 61.3 | 60.0 | 15.3 | 172.6 | 27.6 |
| 7 | MCNEAL | 61.1 | 60.9 | 15.7 | 177.9 | 30.3 |
| 55 | MS COBRA | 60.7 | 63.5 | 14.7 | 173.6 | 29.6 |
| 11 | EGAN | 60.4 | 60.3 | 16.7 | 177.5 | 28.8 |
| 25 | MT 1951 | 57.9 | 58.3 | <u>16.9</u> | 174.7 | 31.4 |
| 50 | LCS BUSTER | 57.7 | 60.1 | 13.4 | 179.3 | 24.8 |
| 4 | CORBIN | 56.0 | 63.3 | 15.1 | 172.9 | 27.1 |
| 54 | AAC CONCORD | 55.1 | 62.6 | 15.9 | 176.6 | 31.1 |
| | MEAN (n=64) | 65.3 | 62.5 | 14.5 | 174.4 | 28.8 |
| | C.V. | 10.5 | 1.2 | 4.8 | 0.6 | 5.7 |
| | Prob. (ENTRY) | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| | LSD(0.05) | 10.4 | 0.9 | 1.1 | 1.4 | 2.5 |

bold : highest or earliest value within a column

bold : equal value to highest or earliest value within a column based LSD(0.05)

2021 ADVANCED SPRING WHEAT NURSERY, FORT BENTON (DRY)

| ENTRY | VARIETY / LINE | YIELD (BU/AC) | TEST WEIGHT (LB/BU) | PROTEIN (%) | PLANT HEIGHT (IN.) | SAW FLY CUT (%) |
|-------|--------------------|------------------|---------------------------|----------------|--------------------------|--------------------|
| 48 | BZ917-277 | 42.9 | 58.4 | 15.6 | 32.0 | 24.7 |
| 20 | MT 1927 | 42.4 | 55.5 | 16.2 | 31.7 | 52.6 |
| 17 | MT 1809 | 41.6 | 57.6 | 16.0 | 30.3 | 33.7 |
| 21 | MT 1931 | 41.1 | 58.1 | 15.7 | 30.3 | 65.3 |
| 22 | MT 1934 | 41.0 | 58.6 | 15.6 | 32.0 | 31.0 |
| 24 | MT 1939 | 40.4 | 56.8 | 15.7 | 29.0 | 29.7 |
| 50 | LCS BUSTER | 40.0 | 57.9 | 13.4 | 28.7 | 22.4 |
| 19 | MT 1904 | 39.7 | 57.2 | 16.1 | 31.3 | 26.2 |
| 30 | BZ917-252 | 39.7 | 56.2 | 16.3 | 26.7 | 61.4 |
| 14 | DAGMAR | 39.4 | 57.9 | 15.9 | 31.7 | 32.8 |
| 9 | VIDA | 39.4 | 58.1 | 15.0 | 30.7 | 28.4 |
| 8 | CHOTEAU | 39.1 | 57.6 | 16.0 | 31.0 | 25.0 |
| 10 | DUCLAIR | 39.0 | 55.2 | 16.0 | 31.3 | 26.6 |
| 52 | LNR 1713 | 38.7 | 59.1 | 15.4 | 30.7 | 49.8 |
| 64 | WB 9516 | 38.6 | 58.4 | 15.0 | 31.3 | 39.1 |
| 62 | WB 9590 | 37.8 | 58.7 | 15.9 | 27.0 | 54.1 |
| 13 | NS PRESSER CLP | 37.7 | 55.7 | 15.3 | 31.0 | 59.6 |
| 54 | AAC CONCORD | 37.5 | 56.3 | 15.8 | 34.3 | 19.0 |
| 51 | LCS ASCENT | 37.4 | 60.2 | 15.0 | 31.7 | 53.0 |
| 63 | WB 9719 | 37.3 | 56.5 | 15.5 | 29.0 | 37.7 |
| 3 | WB GUNNISON | 37.3 | 55.9 | 15.7 | 28.3 | 16.2 |
| 15 | WB 9879 CLP | 37.1 | 56.0 | 16.3 | 30.3 | 17.6 |
| 23 | MT 1938 | 36.7 | 57.2 | 16.1 | 31.3 | 42.7 |
| 57 | SY LONGMIRE | 36.3 | 58.2 | 16.2 | 30.7 | 41.3 |
| 6 | REEDER | 35.4 | 57.1 | 16.1 | 31.7 | 43.1 |
| 12 | LANNING | 35.3 | 56.1 | 16.4 | 28.3 | 68.6 |
| 16 | MT SIDNEY | 35.1 | 54.8 | 16.1 | 31.3 | 62.2 |
| 60 | AP GUNSMOKE CL2 | 35.0 | 57.5 | 17.4 | 28.0 | 61.4 |
| 18 | MT 1855 | 35.0 | 56.1 | 16.5 | 31.0 | 31.4 |
| 4 | CORBIN | 34.8 | 57.4 | 15.9 | 31.0 | 29.4 |
| 25 | MT 1951 | 34.8 | 53.6 | 17.0 | 30.3 | 59.5 |
| 59 | AP SMITH | 34.7 | 55.7 | 16.3 | 27.3 | 65.2 |
| 7 | MCNEAL | 34.5 | 55.2 | 15.6 | 32.0 | 82.7 |
| 53 | MS RANCHERO | 33.8 | 55.7 | 15.3 | 29.7 | 55.7 |
| 1 | SY INGMAR | 33.7 | 55.3 | 16.5 | 29.0 | 52.1 |
| 11 | EGAN | 32.8 | 53.6 | 16.6 | 31.3 | 75.9 |
| 56 | SY McCLOUD | 32.7 | 52.4 | 16.6 | 29.0 | 52.6 |
| 55 | MS COBRA | 32.7 | 56.8 | 16.0 | 30.3 | 74.9 |
| 58 | SY 611 CL2 | 30.8 | 53.3 | 16.3 | 28.0 | 60.1 |
| 2 | SY Rockford | 30.7 | 51.8 | 16.3 | 29.3 | 68.8 |
| 61 | 509-2 | 30.5 | 52.3 | 16.2 | 29.3 | 54.9 |
| | MEAN (n=64) | 37.0 | 56.5 | 15.9 | 30.5 | 46.2 |
| | C.V. | 5.7 | 4.3 | 1.8 | 4.9 | 18.5 |
| | Prob. (ENTRY) | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| | LSD(0.05) | 3.7 | 4.2 | 0.5 | 2.4 | 14.6 |

bold : highest or earliest value within a column

bold : equal value to highest or earliest value within a column based LSD(0.05)

2021 ADVANCED SPRING WHEAT NURSERY, HINGHAM (DRY)

| ENTRY | VARIETY / LINE | YIELD (BU/AC) | TEST WEIGHT (LB/BU) | PROTEIN (%) | PLANT HEIGHT (IN.) |
|--------------------|-----------------|------------------|---------------------------|----------------|--------------------------|
| 9 | VIDA | 28.7 | 59.1 | 13.1 | 18.3 |
| 18 | MT 1855 | 26.3 | 59.1 | 14.4 | 19.7 |
| 17 | MT 1809 | 24.7 | 58.6 | 15.0 | 18.0 |
| 19 | MT 1904 | 24.0 | 60.5 | 14.1 | 20.3 |
| 54 | AAC CONCORD | 23.9 | 58.3 | 14.6 | 21.7 |
| 51 | LCS ASCENT | 23.8 | 60.7 | 15.3 | 18.0 |
| 4 | CORBIN | 23.1 | 59.6 | 14.8 | 19.7 |
| 3 | WB GUNNISON | 23.1 | 60.0 | 14.7 | 18.3 |
| 52 | LNR 1713 | 23.0 | 59.9 | 15.2 | 19.3 |
| 50 | LCS BUSTER | 22.7 | 56.9 | 12.3 | 18.3 |
| 6 | REEDER | 22.5 | 59.5 | 14.8 | 17.7 |
| 13 | NS PRESSER CLP | 22.5 | 58.7 | 14.1 | 18.0 |
| 22 | MT 1934 | 22.1 | 58.4 | 14.6 | 17.7 |
| 61 | 509-2 | 21.8 | 59.9 | 14.7 | 18.0 |
| 63 | WB 9719 | 21.8 | 61.1 | 15.1 | 18.0 |
| 57 | SY LONGMIRE | 21.8 | 60.2 | 15.2 | 19.0 |
| 30 | BZ917-252 | 21.7 | 56.4 | 14.5 | 17.0 |
| 10 | DUCLAIR | 21.6 | 58.2 | 15.0 | 17.7 |
| 15 | WB 9879 CLP | 21.5 | 58.4 | 15.7 | 19.3 |
| 58 | SY 611 CL2 | 21.3 | 61.3 | 15.9 | 18.7 |
| 24 | MT 1939 | 21.2 | 59.0 | 14.4 | 17.3 |
| 53 | MS RANCHERO | 21.0 | 58.9 | 14.8 | 17.3 |
| 14 | DAGMAR | 20.4 | 59.2 | 16.0 | 19.7 |
| 64 | WB 9516 | 20.3 | 59.9 | 15.3 | 19.0 |
| 16 | MT SIDNEY | 20.1 | 59.3 | 14.6 | 18.3 |
| 20 | MT 1927 | 19.8 | 57.2 | 15.3 | 18.7 |
| 1 | SY INGMAR | 19.6 | 60.1 | 15.8 | 17.0 |
| 8 | CHOTEAU | 18.9 | 58.3 | 15.3 | 18.0 |
| 7 | MCNEAL | 18.7 | 58.2 | 16.0 | 19.7 |
| 55 | MS COBRA | 18.7 | 59.7 | 15.4 | 16.3 |
| 23 | MT 1938 | 18.6 | 58.4 | 16.0 | 18.0 |
| 56 | SY McCLOUD | 18.4 | 60.4 | 16.7 | 19.7 |
| 21 | MT 1931 | 18.0 | 58.7 | 15.5 | 17.7 |
| 48 | BZ917-277 | 17.6 | 59.9 | 15.4 | 19.7 |
| 2 | SY Rockford | 17.0 | 58.2 | 15.0 | 18.3 |
| 62 | WB 9590 | 16.8 | 60.2 | 15.9 | 17.3 |
| 11 | EGAN | 16.7 | 56.6 | 17.1 | 19.0 |
| 12 | LANNING | 15.8 | 58.7 | 16.8 | 16.3 |
| 25 | MT 1951 | 15.8 | 56.5 | 17.4 | 17.7 |
| 60 | AP GUNSMOKE CL2 | 14.9 | 58.7 | 16.9 | 17.3 |
| 59 | AP SMITH | 13.6 | 60.3 | 16.3 | 15.0 |
| MEAN (n=64) | | 20.2 | 59.0 | 15.2 | 18.2 |
| C.V. | | 16.0 | 0.8 | 3.3 | 6.9 |
| Prob. (ENTRY) | | <0.05 | <0.001 | <0.001 | <0.001 |
| LSD(0.05) | | 5.5 | 0.8 | 0.9 | 2.0 |

bold : highest or earliest value within a column

bold : equal value to highest or earliest value within a column based LSD(0.05)

2021 ADVANCED SPRING WHEAT NURSERY, RUDYARD (DRY)

| ENTRY | VARIETY / LINE | YIELD (BU/AC) | TEST WEIGHT (LB/BU) | PROTEIN (%) | PLANT HEIGHT (IN.) | SAW FLY CUT (%) |
|--------------------|-----------------|------------------|---------------------------|----------------|--------------------------|--------------------|
| 13 | NS PRESSER CLP | 33.3 | 56.9 | 15.7 | 26.7 | 17.8 |
| 64 | WB 9516 | 32.3 | 58.7 | 15.5 | 23.4 | 8.0 |
| 53 | MS RANCHERO | 32.2 | 57.0 | 15.0 | 24.5 | 17.6 |
| 51 | LCS ASCENT | 32.1 | 58.1 | 16.0 | 24.1 | 8.8 |
| 16 | MT SIDNEY | 31.5 | 57.8 | 16.2 | 24.4 | 18.5 |
| 14 | DAGMAR | 30.9 | 57.6 | 16.3 | 25.5 | 1.9 |
| 23 | MT 1938 | 30.5 | 56.2 | 16.0 | 25.4 | 17.5 |
| 17 | MT 1809 | 30.5 | 56.5 | 17.0 | 24.0 | 16.6 |
| 52 | LNR 1713 | 30.2 | 55.7 | 16.3 | 22.9 | 12.1 |
| 60 | AP GUNSMOKE CL2 | 29.8 | 57.1 | 16.6 | 24.3 | 7.8 |
| 59 | AP SMITH | 29.8 | 57.1 | 16.9 | 21.9 | 7.1 |
| 48 | BZ917-277 | 29.4 | 58.8 | 15.6 | 23.8 | 12.3 |
| 12 | LANNING | 29.4 | 55.9 | 16.7 | 21.3 | 16.9 |
| 62 | WB 9590 | 28.9 | 57.0 | 16.9 | 21.3 | 3.1 |
| 54 | AAC CONCORD | 28.8 | 56.1 | 16.4 | 25.0 | 2.6 |
| 22 | MT 1934 | 28.4 | 57.8 | 15.2 | 24.3 | 15.6 |
| 25 | MT 1951 | 28.1 | 54.2 | 17.2 | 23.1 | 14.7 |
| 24 | MT 1939 | 27.9 | 57.2 | 15.3 | 24.7 | 16.1 |
| 55 | MS COBRA | 27.5 | 57.0 | 16.5 | 24.2 | 18.4 |
| 15 | WB 9879 CLP | 27.2 | 55.9 | 16.3 | 21.8 | 3.8 |
| 7 | MCNEAL | 27.0 | 56.9 | 16.2 | 22.9 | 22.0 |
| 63 | WB 9719 | 26.9 | 58.9 | 16.1 | 23.1 | 9.3 |
| 30 | BZ917-252 | 26.7 | 55.1 | 15.9 | 24.3 | 16.7 |
| 9 | VIDA | 26.1 | 56.9 | 15.9 | 24.1 | 18.3 |
| 3 | WB GUNNISON | 25.7 | 58.4 | 15.7 | 25.1 | 0.7 |
| 4 | CORBIN | 25.7 | 58.2 | 16.7 | 23.6 | 0.9 |
| 6 | REEDER | 25.4 | 56.8 | 16.6 | 23.2 | 15.8 |
| 61 | 509-2 | 25.4 | 56.8 | 16.9 | 22.6 | 21.6 |
| 21 | MT 1931 | 25.3 | 56.6 | 15.9 | 22.6 | 14.8 |
| 20 | MT 1927 | 25.2 | 54.8 | 16.3 | 23.7 | 18.3 |
| 8 | CHOTEAU | 24.7 | 57.1 | 16.1 | 23.1 | 8.8 |
| 11 | EGAN | 24.3 | 56.1 | 16.9 | 23.3 | 16.2 |
| 56 | SY McCLOUD | 24.1 | 58.5 | 17.3 | 22.2 | 5.1 |
| 1 | SY INGMAR | 23.4 | 58.2 | 17.0 | 23.9 | 7.1 |
| 50 | LCS BUSTER | 23.2 | 55.0 | 15.1 | 21.5 | 5.4 |
| 2 | SY Rockford | 23.1 | 55.6 | 16.9 | 23.0 | 17.2 |
| 58 | SY 611 CL2 | 22.9 | 59.4 | 16.2 | 21.6 | 7.0 |
| 19 | MT 1904 | 22.3 | 59.3 | 16.5 | 21.8 | 3.7 |
| 57 | SY LONGMIRE | 22.2 | 58.9 | 17.3 | 22.6 | 8.0 |
| 18 | MT 1855 | 20.9 | 57.7 | 16.4 | 23.5 | 10.3 |
| 10 | DUCLAIR | 19.8 | 56.1 | 16.4 | 19.1 | 6.5 |
| MEAN (n=64) | | 26.9 | 57.0 | 16.3 | 23.5 | 12.4 |
| C.V. | | 7.2 | 1.6 | 2.9 | 4.5 | 37.3 |
| Prob. (ENTRY) | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| LSD(0.05) | | 3.3 | 1.6 | 0.8 | 1.7 | 7.9 |

bold : highest or earliest value within a column

bold : equal value to highest or earliest value within a column based LSD(0.05)

2021 ADVANCED SPRING WHEAT NURSERY, WILLISTON (DRY)

| ENTRY | VARIETY / LINE | YIELD (BU/AC) | TEST WEIGHT (LB/BU) | PROTEIN (%) | HEADING DATE (JULIAN) | PLANT HEIGHT (IN.) |
|-------|--------------------|------------------|---------------------------|----------------|-----------------------------|--------------------------|
| 17 | MT 1809 | 26.3 | 58.8 | 16.4 | 182.0 | 17.7 |
| 14 | DAGMAR | 24.9 | 60.2 | 16.4 | 178.5 | 19.3 |
| 13 | NS PRESSER CLP | 24.4 | 58.8 | 14.6 | 184.5 | 19.3 |
| 9 | VIDA | 23.8 | 59.9 | 16.1 | 183.2 | 18.3 |
| 2 | SY ROCKFORD | 23.7 | 58.5 | 15.2 | 182.9 | 18.0 |
| 51 | LCS ASCENT | 23.7 | 62.2 | 14.9 | 179.6 | 17.6 |
| 16 | MT SIDNEY | 23.7 | 60.3 | 16.5 | 181.6 | 18.4 |
| 59 | AP SMITH | 22.7 | 60.1 | 15.8 | 183.0 | 16.2 |
| 64 | WB 9516 | 22.3 | 61.9 | 15.5 | 182.6 | 19.4 |
| 20 | MT 1927 | 21.4 | 57.7 | 17.1 | 182.8 | 18.1 |
| 60 | AP GUNSMOKE CL2 | 21.2 | 59.3 | 16.5 | 180.7 | 19.1 |
| 62 | WB 9590 | 21.1 | 60.8 | 16.2 | 179.9 | 17.6 |
| 56 | SY McCLOUD | 21.0 | 62.5 | 16.8 | 181.5 | 17.8 |
| 7 | MCNEAL | 20.8 | 57.3 | 16.3 | 182.6 | 20.1 |
| 19 | MT 1904 | 20.7 | 60.5 | 16.4 | 182.9 | 17.3 |
| 15 | WB 9879 CLP | 20.5 | 60.1 | 16.7 | 182.9 | 17.3 |
| 57 | SY LONGMIRE | 20.4 | 61.0 | 16.0 | 182.2 | 19.4 |
| 63 | WB 9719 | 20.1 | 62.0 | 16.0 | 183.2 | 17.2 |
| 48 | BZ917-277 | 20.1 | 60.2 | 16.4 | 184.0 | 20.3 |
| 58 | SY 611 CL2 | 20.0 | 61.2 | 16.0 | 181.4 | 17.9 |
| 1 | SY INGMAR | 19.9 | 60.8 | 16.8 | 181.1 | 17.5 |
| 52 | LNR 1713 | 19.8 | 60.5 | 14.9 | 181.4 | 19.1 |
| 24 | MT 1939 | 19.3 | 59.0 | 15.7 | 181.6 | 18.0 |
| 6 | REEDER | 19.3 | 59.4 | 16.3 | 183.0 | 15.8 |
| 23 | MT 1938 | 19.3 | 59.2 | 15.8 | 180.9 | 18.1 |
| 12 | LANNING | 19.2 | 58.6 | 16.0 | 183.8 | 17.9 |
| 18 | MT 1855 | 19.0 | 59.5 | 16.7 | 182.7 | 18.7 |
| 3 | WB GUNNISON | 18.8 | 60.5 | 15.8 | 182.1 | 18.5 |
| 61 | 509-2 | 18.6 | 60.0 | 15.9 | 178.4 | 18.2 |
| 10 | DUCLAIR | 18.4 | 58.3 | 16.8 | 180.1 | 18.7 |
| 25 | MT 1951 | 18.3 | 55.3 | 17.5 | 183.3 | 17.7 |
| 4 | CORBIN | 18.0 | 60.1 | 16.9 | 179.3 | 17.8 |
| 53 | MS RANCHERO | 17.7 | 58.9 | 15.8 | 183.3 | 18.6 |
| 55 | MS COBRA | 17.5 | 60.7 | 16.5 | 180.7 | 18.2 |
| 21 | MT 1931 | 17.2 | 58.6 | 15.7 | 182.0 | 17.5 |
| 54 | AAC CONCORD | 17.2 | 58.2 | 16.3 | 183.8 | 18.7 |
| 11 | EGAN | 17.1 | 56.6 | 17.9 | 183.5 | 18.7 |
| 22 | MT 1934 | 16.5 | 58.5 | 16.0 | 182.0 | 17.2 |
| 8 | CHOTEAU | 15.3 | 59.5 | 17.8 | 181.7 | 17.2 |
| 50 | LCS BUSTER | 15.0 | 57.7 | 16.6 | 184.7 | 16.8 |
| 30 | BZ917-252 | 14.4 | 54.4 | 17.6 | 183.4 | 15.6 |
| | MEAN (n=64) | 19.8 | 59.6 | 16.3 | 181.8 | 18.2 |
| | C.V. | 18.7 | 1 rep | 1 rep | 0.4 | 5.9 |
| | Prob. (ENTRY) | <0.05 | 1 rep | 1 rep | <0.001 | <0.001 |
| | LSD(0.05) | 6.3 | 1 rep | 1 rep | 1.2 | 1.8 |

bold : highest or earliest value within a column

bold : equal value to highest or earliest value within a column based LSD(0.05)

**2021 OVERALL AGRONOMIC SUMMARY FOR SPRING WHEAT OFF-STATION NURSERY GROWN UNDER
RAIN FED CONDITION (12 LOCATIONS) ACROSS MONTANA**

| ENTRY | VARIETY / LINE | YIELD (BU/AC) | TEST WEIGHT (LB/BU) | GRAIN PROTEIN (%) | HEADING DATE (JULIAN) | HEIGHT (INCHES) | SAWFLY CUT (%) | FALLING NO. |
|---------------------|----------------|------------------|---------------------------|-------------------------|-----------------------------|--------------------|----------------------|----------------|
| 23 | MT 1938 | 29.9 | 56.8 | 16.5 | 181.0 | 21.1 | 13.0 | 371 |
| 22 | MT 1934 | 29.4 | 56.9 | 16.4 | 181.2 | 21.4 | 17.7 | 367 |
| 21 | MT 1931 | 29.4 | 56.6 | 16.2 | 181.0 | 20.9 | 46.7 | 335 |
| 24 | MT 1939 | 29.3 | 56.7 | 16.2 | 181.5 | 21.1 | 18.4 | 367 |
| 12 | DAGMAR | 28.3 | 58.1 | 16.7 | 181.6 | 21.7 | 5.8 | 401 |
| 20 | MT 1927 | 28.2 | 54.9 | 17.3 | 182.9 | 21.2 | 5.3 | 370 |
| 17 | MT 1809 | 28.2 | 56.4 | 17.0 | 181.8 | 21.1 | 16.9 | 407 |
| 7 | VIDA | 28.0 | 57.4 | 16.1 | 182.6 | 21.2 | 14.1 | 372 |
| 11 | NS PRESSER CLP | 27.3 | 56.4 | 16.1 | 183.1 | 22.1 | 13.9 | 397 |
| 16 | MT SIDNEY | 26.8 | 57.4 | 16.6 | 181.9 | 22.3 | 16.8 | 414 |
| 10 | LANNING | 26.6 | 56.4 | 16.8 | 181.0 | 20.6 | 33.9 | 383 |
| 14 | CHOTEAU | 26.2 | 57.1 | 16.8 | 182.0 | 20.9 | 5.4 | 393 |
| 13 | WB9879CLP | 25.9 | 57.1 | 16.9 | 182.2 | 20.1 | 2.9 | 433 |
| 19 | MT 1904 | 25.6 | 58.8 | 16.7 | 182.4 | 20.9 | 1.8 | 376 |
| 4 | WB GUNNISON | 25.5 | 57.3 | 16.2 | 181.6 | 20.1 | 0.2 | 393 |
| 6 | REEDER | 25.2 | 57.4 | 16.6 | 182.6 | 21.2 | 26.8 | 375 |
| 18 | MT 1855 | 25.2 | 57.5 | 16.8 | 183.1 | 22.0 | 12.4 | 431 |
| 9 | EGAN | 25.0 | 55.5 | 17.7 | 182.9 | 21.3 | 32.2 | 462 |
| 8 | DUCLAIR | 25.0 | 55.8 | 16.8 | 181.2 | 21.8 | 5.6 | 357 |
| 15 | ALUM | 24.9 | 57.4 | 16.7 | 182.2 | 20.9 | 13.9 | 402 |
| 5 | CORBIN | 24.6 | 56.6 | 16.8 | 181.2 | 21.5 | 8.2 | 376 |
| 1 | BRENNAN | 24.5 | 57.4 | 16.9 | 181.2 | 20.2 | 25.6 | 418 |
| 2 | SY SOREN | 24.2 | 57.1 | 17.3 | 182.0 | 20.4 | 23.3 | 443 |
| 25 | MT 1951 | 23.9 | 54.1 | 17.5 | 181.8 | 21.3 | 22.3 | 394 |
| 3 | SY INGMAR | 23.3 | 57.3 | 17.2 | 182.1 | 20.3 | 23.3 | 412 |
| MEAN | | 26.4 | 56.8 | 16.7 | 181.9 | 21.1 | 16.3 | 394 |
| C.V. | | 10.5 | 2.8 | 2.6 | 0.4 | 5.4 | 58.8 | 5.0 |
| PROBABILITY (LINE) | | <0.001 | <0.001 | <0.001 | ns | <0.001 | <0.001 | <0.001 |
| LSD (0.05) | | 2.2 | 1.3 | 0.3 | - | 0.9 | 15.7 | 32 |
| No. of environments | | 12 | 12 | 12 | 2 | 12 | 3 | 3 |

bold : highest or earliest value within a column

bold : equal value to highest or earliest value within a column based LSD(0.05)

2021 OVERALL AGRONOMIC SUMMARY FOR SPRING WHEAT OFF-STATION NURSERY GROWN UNDER IRRI / HIGH RAINFALL CONDITION (5 LOCATIONS INCLUDING KALISPELL) ACROSS MONTANA

| ENTRY | VARIETY / LINE | YIELD (BU/AC) | TEST WEIGHT (LB/BU) | GRAIN PROTEIN (%) | HEADING DATE (JULIAN) | HEIGHT (INCHES) |
|---------------------|----------------|---------------|---------------------|-------------------|-----------------------|-----------------|
| 13 | WB9879CLP | 86.9 | 60.2 | 14.5 | 171.1 | 32.6 |
| 23 | MT 1938 | 85.6 | 59.6 | 14.7 | 169.3 | 31.2 |
| 17 | MT 1809 | 83.6 | 58.9 | 15.1 | 171.0 | 31.5 |
| 22 | MT 1934 | 83.2 | 59.5 | 14.7 | 168.7 | 32.2 |
| 20 | MT 1927 | 82.8 | 58.2 | 15.0 | 173.2 | 31.6 |
| 18 | MT 1855 | 82.7 | 59.8 | 14.7 | 173.3 | 33.6 |
| 14 | CHOTEAU | 82.5 | 59.8 | 14.6 | 170.4 | 32.2 |
| 12 | DAGMAR | 82.4 | 60.2 | 15.0 | 168.8 | 33.2 |
| 19 | MT 1904 | 81.9 | 60.9 | 14.8 | 171.5 | 31.9 |
| 24 | MT 1939 | 81.7 | 59.3 | 14.2 | 169.9 | 31.9 |
| 7 | VIDA | 81.2 | 59.1 | 14.4 | 171.6 | 32.2 |
| 16 | MT SIDNEY | 80.8 | 59.6 | 14.3 | 170.0 | 33.5 |
| 3 | SY INGMAR | 80.0 | 60.2 | 14.6 | 171.7 | 31.3 |
| 25 | MT 1951 | 79.7 | 58.1 | 15.7 | 170.7 | 32.8 |
| 10 | LANNING | 79.4 | 59.7 | 15.1 | 168.1 | 31.3 |
| 4 | WB GUNNISON | 79.0 | 60.7 | 14.1 | 171.8 | 30.4 |
| 21 | MT 1931 | 78.7 | 59.9 | 14.8 | 168.0 | 31.5 |
| 11 | NS PRESSER CLP | 77.5 | 59.3 | 14.7 | 174.0 | 32.2 |
| 8 | DUCLAIR | 77.4 | 58.9 | 14.6 | 169.0 | 31.6 |
| 2 | SY SOREN | 77.1 | 60.1 | 15.0 | 170.9 | 29.8 |
| 5 | CORBIN | 77.0 | 60.1 | 14.6 | 169.3 | 30.8 |
| 6 | REEDER | 77.0 | 60.6 | 15.0 | 171.5 | 33.2 |
| 15 | ALUM | 76.7 | 61.1 | 14.3 | 171.5 | 30.9 |
| 9 | EGAN | 76.7 | 58.9 | 16.3 | 172.9 | 31.7 |
| 1 | BRENNAN | 76.0 | 60.9 | 14.9 | 169.5 | 29.8 |
| MEAN | | 80.3 | 59.7 | 14.8 | 170.7 | 31.8 |
| C.V. | | 8.9 | 1.5 | 3.2 | 0.5 | 4.1 |
| PROBABILITY (LINE) | | ns | <0.001 | <0.001 | <0.001 | <0.001 |
| LSD (0.05) | | - | 1.1 | 0.6 | 1.6 | 1.6 |
| No. of environments | | 5 | 5 | 5 | 2 | 5 |

bold : highest or earliest value within a column

bold : equal value to highest or earliest value within a column based LSD(0.05)

2021 OVERALL AGRONOMIC SUMMARY FOR SPRING WHEAT OFF-STATION NURSERY GROWN IN 17 ENVIRONMENTS, INCLUDING 13 DRYLAND AND 4 IRRIGATED ENVIRONMENTS ACROSS MONTANA

| ENTRY | VARIETY / LINE | YIELD (BU/AC) | TEST WEIGHT (LB/BU) | GRAIN PROTEIN (%) | HEADING DATE (JULIAN) | HEIGHT (INCHES) | SAWFLY CUT (%) | FALLING NO. |
|---------------------|----------------|---------------|---------------------|-------------------|-----------------------|-----------------|----------------|-------------|
| 23 | MT 1938 | 46.3 | 57.6 | 15.9 | 175.1 | 24.1 | 13.0 | 371 |
| 22 | MT 1934 | 45.2 | 57.7 | 15.9 | 174.9 | 24.5 | 17.7 | 367 |
| 24 | MT 1939 | 44.7 | 57.5 | 15.6 | 175.7 | 24.3 | 18.4 | 367 |
| 17 | MT 1809 | 44.5 | 57.1 | 16.4 | 176.4 | 24.1 | 16.9 | 407 |
| 20 | MT 1927 | 44.3 | 55.9 | 16.6 | 178.0 | 24.3 | 5.3 | 370 |
| 12 | DAGMAR | 44.3 | 58.7 | 16.2 | 175.2 | 25.1 | 5.8 | 401 |
| 21 | MT 1931 | 43.9 | 57.6 | 15.8 | 174.5 | 24.0 | 46.7 | 335 |
| 13 | WB9879CLP | 43.8 | 58.0 | 16.2 | 176.6 | 23.8 | 2.9 | 433 |
| 7 | VIDA | 43.7 | 57.9 | 15.6 | 177.1 | 24.5 | 14.1 | 372 |
| 14 | CHOTEAU | 42.7 | 57.9 | 16.2 | 176.2 | 24.2 | 5.4 | 393 |
| 16 | MT SIDNEY | 42.7 | 58.1 | 15.9 | 176.0 | 25.5 | 16.8 | 414 |
| 10 | LANNING | 42.2 | 57.4 | 16.3 | 174.5 | 23.8 | 33.9 | 383 |
| 19 | MT 1904 | 42.2 | 59.4 | 16.2 | 176.9 | 24.1 | 1.8 | 376 |
| 18 | MT 1855 | 42.1 | 58.2 | 16.2 | 178.2 | 25.4 | 12.4 | 431 |
| 11 | NS PRESSER CLP | 42.0 | 57.2 | 15.7 | 178.6 | 25.1 | 13.9 | 397 |
| 4 | WB GUNNISON | 41.2 | 58.3 | 15.6 | 176.7 | 23.1 | 0.2 | 393 |
| 6 | REEDER | 40.5 | 58.4 | 16.1 | 177.0 | 24.7 | 26.8 | 375 |
| 8 | DUCLAIR | 40.4 | 56.7 | 16.1 | 175.1 | 24.7 | 5.6 | 357 |
| 25 | MT 1951 | 40.3 | 55.3 | 17.0 | 176.2 | 24.7 | 22.3 | 394 |
| 9 | EGAN | 40.2 | 56.5 | 17.3 | 177.9 | 24.3 | 32.2 | 462 |
| 15 | ALUM | 40.2 | 58.5 | 16.0 | 176.8 | 23.8 | 13.9 | 402 |
| 5 | CORBIN | 40.0 | 57.6 | 16.2 | 175.3 | 24.2 | 8.2 | 376 |
| 3 | SY INGMAR | 40.0 | 58.1 | 16.4 | 176.9 | 23.5 | 23.3 | 412 |
| 2 | SY SOREN | 39.7 | 58.0 | 16.6 | 176.5 | 23.2 | 23.3 | 443 |
| 1 | BRENNAN | 39.7 | 58.4 | 16.3 | 175.4 | 23.0 | 25.6 | 418 |
| MEAN | | 42.3 | 57.7 | 16.2 | 176.3 | 24.2 | 16.3 | 394 |
| C.V. | | 10.4 | 2.5 | 2.8 | 0.5 | 5.0 | 58.8 | 5.0 |
| PROBABILITY (LINE) | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| LSD (0.05) | | 3.0 | 1.0 | 0.3 | 1.2 | 0.8 | 15.7 | 32 |
| No. of environments | | 17 | 17 | 17 | 4 | 17 | 3 | 3 |

bold : highest or earliest value within a column

bold : equal value to highest or earliest value within a column based LSD(0.05)

2021 OFF-STATION : BOZEMAN (IRRIGATION) : 9901

| ENTRY | ID | VARIETY / PEDIGREE | YIELD (BU/AC) | TEST WEIGHT (LB/BU) | PROTEIN (%) | HEADING DATE (JULIAN) | PLANT HEIGHT (IN.) | LODGING (0-9) |
|----------------------------|-----------|---------------------------------------|------------------|---------------------------|----------------|-----------------------------|--------------------------|------------------|
| 13 | WB9879CLP | WB9879CLP | <u>117.2</u> | 59.0 | 13.6 | 178.0 | 35.7 | 1 |
| 23 | MT 1938 | LANNING///MT1018//CHOTEAU/YELLOWSTONE | 111.5 | 59.5 | 14.8 | 174.6 | 34.7 | 5 |
| 8 | PI 660981 | DUCLAIR | 107.6 | 58.4 | 14.2 | 174.5 | 34.6 | 2 |
| 14 | PI 633974 | CHOTEAU | 107.4 | 59.0 | 13.9 | 176.1 | 35.5 | 3 |
| 12 | PI 690450 | DAGMAR | 107.2 | 59.3 | 14.9 | 174.6 | 35.9 | 5 |
| 3 | AGRIPR141 | SY INGMAR | 103.6 | 60.0 | 14.7 | 176.6 | 34.0 | <u>0</u> |
| 20 | MT 1927 | MT1203/MT1234 | 102.9 | 58.7 | 15.0 | 179.4 | 35.6 | 3 |
| 18 | MT 1855 | MT1053/MO8/3-4 | 102.6 | 59.0 | 14.3 | 179.6 | 38.5 | 2 |
| 22 | MT 1934 | VIDA/MT1319 | 102.3 | 58.4 | 15.0 | 174.0 | 34.1 | 3 |
| 25 | MT 1951 | LANNING/EGAN | 101.4 | 58.6 | 15.8 | 176.8 | 36.5 | 1 |
| 4 | BZ 92413R | WB GUNNISON | 96.4 | 60.9 | 13.3 | 178.0 | 32.1 | <u>0</u> |
| 10 | PI 676978 | LANNING | 95.8 | 60.2 | 14.5 | <u>173.8</u> | 33.8 | 1 |
| 24 | MT 1939 | LANNING///MT1018//CHOTEAU/YELLOWSTONE | 94.6 | 59.9 | 14.2 | 175.1 | 34.8 | 6 |
| 2 | AGRIPR 14 | SY SOREN | 92.7 | 59.1 | 14.7 | 176.4 | 31.9 | 2 |
| 17 | MT 1809 | VIDA/MO 09/3-4 | 92.6 | 57.0 | 15.6 | 177.1 | 35.0 | 5 |
| 15 | WSCIA | ALUM | 88.6 | 61.0 | 13.8 | 177.8 | 34.9 | 3 |
| 9 | PI 671855 | EGAN | 88.1 | 58.1 | <u>17.7</u> | 179.1 | 35.8 | <u>0</u> |
| 5 | BZ 996434 | CORBIN | 87.6 | 59.4 | 14.1 | 174.2 | 34.8 | 5 |
| 7 | PI 642366 | VIDA | 85.6 | 56.1 | 14.6 | 177.2 | 35.7 | 7 |
| 1 | AGRIPR 10 | BRENNAN | 83.4 | 59.8 | 14.3 | 174.4 | 32.1 | 2 |
| 21 | MT 1931 | LANNING/MT1319 | 83.2 | 59.3 | 15.3 | <u>173.8</u> | 35.9 | 5 |
| 19 | MT 1904 | VIDA///MT1018//CHOTEAU/YELLOWSTONE | 80.6 | 58.3 | 15.6 | 177.7 | 35.6 | 7 |
| 11 | PI 679964 | NS PRESSER CLP | 79.6 | 57.9 | 15.4 | 180.9 | 35.5 | 6 |
| 16 | MT 1716 | MT SIDNEY | 79.0 | 57.8 | 14.2 | 175.7 | 37.8 | 6 |
| 6 | ND 695 | REEDER | 78.2 | 59.2 | 15.2 | 177.4 | <u>38.9</u> | 2 |
| MEAN | | | 94.8 | 59.0 | 14.7 | 176.5 | 35.2 | 3 |
| C.V. | | | 10.6 | 1 rep | 1 rep | 0.5 | 3.1 | 58.5 |
| PROBABILITY (ENTRY) | | | <0.001 | 1 rep | 1 rep | <0.001 | <0.001 | <0.001 |
| LSD(0.05) | | | 16.1 | 1 rep | 1 rep | 1.3 | 1.5 | 3 |
| LATTICE RE(%) ¹ | | | 107.5 | 1 rep | 1 rep | 125.2 | 143.9 | 113.8 |

bold : highest or earliest value within a column

bold : equal value to highest or earliest value within a column based LSD(0.05)

2021 OFF-STATION : KALISPELL (HIGH RAINFALL) : 9905

| ENTRY | ID | VARIETY / PEDIGREE | YIELD (BU/AC) | TEST WEIGHT (LB/BU) | PROTEIN (%) | PLANT HEIGHT (IN.) | KERNEL WEIGHT (g) | LODGING (%) |
|----------------------------|-----------|---------------------------------------|------------------|---------------------------|----------------|--------------------------|-------------------------|----------------|
| 24 | MT 1939 | LANNING///MT1018//CHOTEAU/YELLOWSTONE | 63.3 | 50.2 | 16.7 | 26.0 | 26.8 | 42 |
| 7 | PI 642366 | VIDA | 62.8 | 52.4 | 16.4 | 28.6 | 26.3 | 20 |
| 16 | MT 1716 | MT SIDNEY | 62.4 | 53.1 | 16.5 | 28.0 | 28.5 | 80 |
| 22 | MT 1934 | VIDA/MT1319 | 62.2 | 51.1 | 16.6 | 26.8 | 24.6 | 15 |
| 6 | ND 695 | REEDER | 60.9 | 54.1 | 16.7 | 28.1 | 27.8 | 30 |
| 21 | MT 1931 | LANNING/MT1319 | 60.2 | 51.6 | 16.4 | 29.2 | 29.8 | 62 |
| 3 | AGRIPR141 | SY INGMAR | 59.6 | 53.4 | 16.4 | 25.7 | 23.9 | 0 |
| 23 | MT 1938 | LANNING///MT1018//CHOTEAU/YELLOWSTONE | 59.2 | 51.7 | 16.3 | 25.3 | 26.0 | 15 |
| 1 | AGRIPR 10 | BRENNAN | 57.6 | 54.1 | 16.3 | 24.9 | 23.9 | 0 |
| 25 | MT 1951 | LANNING/EGAN | 57.6 | 50.6 | 17.8 | 29.5 | 27.5 | 0 |
| 20 | MT 1927 | MT1203/MT1234 | 57.3 | 49.4 | 17.4 | 29.1 | 26.5 | 23 |
| 9 | PI 671855 | EGAN | 56.7 | 52.8 | 17.5 | 26.9 | 26.1 | 3 |
| 14 | PI 633974 | CHOTEAU | 55.8 | 52.2 | 16.9 | 26.7 | 27.6 | 37 |
| 19 | MT 1904 | VIDA///MT1018//CHOTEAU/YELLOWSTONE | 55.2 | 55.7 | 16.8 | 28.1 | 25.2 | 7 |
| 17 | MT 1809 | VIDA/M0 09/3-4 | 54.9 | 51.5 | 16.8 | 27.1 | 24.7 | 48 |
| 18 | MT 1855 | MT1053/MO8/3-4 | 54.8 | 52.9 | 16.4 | 28.2 | 27.9 | 0 |
| 10 | PI 676978 | LANNING | 54.0 | 50.8 | 16.9 | 27.5 | 26.7 | 0 |
| 11 | PI 679964 | NS PRESSER CLP | 53.3 | 52.3 | 17.0 | 29.1 | 28.1 | 52 |
| 2 | AGRIPR 14 | SY SOREN | 53.1 | 52.2 | 17.0 | 25.1 | 22.3 | 0 |
| 12 | PI 690450 | DAGMAR | 52.8 | 52.5 | 16.8 | 29.0 | 26.9 | 0 |
| 5 | BZ 996434 | CORBIN | 52.1 | 52.6 | 16.6 | 25.6 | 27.4 | 97 |
| 4 | BZ 92413R | WB GUNNISON | 52.0 | 53.6 | 16.3 | 26.0 | 30.7 | 5 |
| 13 | WB9879CLP | WB9879CLP | 50.8 | 52.5 | 17.0 | 27.8 | 24.8 | 5 |
| 15 | WSCIA | ALUM | 49.4 | 55.1 | 17.0 | 27.8 | 31.1 | 7 |
| 8 | PI 660981 | DUCLAIR | 47.4 | 51.2 | 17.3 | 26.1 | 25.7 | 23 |
| MEAN | | | 56.2 | 52.4 | 16.8 | 27.3 | 26.7 | 23 |
| C.V. | | | 5.9 | 1.9 | 2.2 | 5.3 | 7.0 | 105.9 |
| PROBABILITY (ENTRY) | | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| LSD(0.05) | | | 5.3 | 1.1 | 0.4 | 1.9 | 2.2 | 39 |
| LATTICE RE(%) ¹ | | | 106.9 | 211.9 | 196.6 | 151.5 | 199.8 | 105.3 |

bold : highest or earliest value within a column

bold : equal value to highest or earliest value within a column based LSD(0.05)

2021 OFF-STATION : HUNTLEY (DRY) : 9908

| ENTRY | ID | VARIETY / PEDIGREE | YIELD (BU/AC) | TEST WEIGHT (LB/BU) | PROTEIN (%) | PLANT HEIGHT (IN.) |
|-----------------------------|-----------|---------------------------------------|------------------|---------------------------|----------------|--------------------------|
| 24 | MT 1939 | LANNING///MT1018//CHOTEAU/YELLOWSTONE | 54.9 | 57.3 | 16.2 | 30.4 |
| 23 | MT 1938 | LANNING///MT1018//CHOTEAU/YELLOWSTONE | 54.7 | 56.3 | 16.5 | 31.2 |
| 7 | PI 642366 | VIDA | 50.5 | 56.2 | 16.1 | 30.7 |
| 12 | PI 690450 | DAGMAR | 50.0 | 57.6 | 17.3 | 31.7 |
| 22 | MT 1934 | VIDA/MT1319 | 48.3 | 56.9 | 16.1 | 31.4 |
| 21 | MT 1931 | LANNING/MT1319 | 47.5 | 55.9 | 16.5 | 30.4 |
| 8 | PI 660981 | DUCLAIR | 47.2 | 55.4 | 17.0 | 33.1 |
| 20 | MT 1927 | MT1203/MT1234 | 47.2 | 54.4 | 17.9 | 29.9 |
| 14 | PI 633974 | CHOTEAU | 46.7 | 56.2 | 16.7 | 30.6 |
| 17 | MT 1809 | VIDA/M0 09/3-4 | 45.6 | 55.8 | 17.0 | 29.0 |
| 1 | AGRIPR 10 | BRENNAN | 45.4 | 57.4 | 17.1 | 29.7 |
| 4 | BZ 92413R | WB GUNNISON | 45.1 | 55.4 | 17.4 | 25.5 |
| 11 | PI 679964 | NS PRESSER CLP | 45.1 | 55.1 | 16.2 | 30.6 |
| 16 | MT 1716 | MT SIDNEY | 45.1 | 56.9 | 16.3 | 32.3 |
| 19 | MT 1904 | VIDA///MT1018//CHOTEAU/YELLOWSTONE | 44.7 | 58.7 | 16.6 | 29.1 |
| 3 | AGRIPR141 | SY INGMAR | 44.6 | 54.4 | 17.7 | 29.3 |
| 13 | WB9879CLP | WB9879CLP | 42.4 | 56.0 | 17.1 | 26.4 |
| 25 | MT 1951 | LANNING/EGAN | 42.4 | 53.8 | 18.0 | 32.6 |
| 6 | ND 695 | REEDER | 41.9 | 55.7 | 16.7 | 29.9 |
| 2 | AGRIPR 14 | SY SOREN | 41.5 | 54.1 | 18.2 | 27.6 |
| 10 | PI 676978 | LANNING | 41.2 | 55.4 | 17.0 | 28.9 |
| 9 | PI 671855 | EGAN | 41.1 | 54.3 | 18.9 | 29.4 |
| 5 | BZ 996434 | CORBIN | 38.4 | 56.2 | 17.4 | 30.5 |
| 15 | WSCIA | ALUM | 38.2 | 56.0 | 17.4 | 27.3 |
| 18 | MT 1855 | MT1053/MO8/3-4 | 37.4 | 56.2 | 16.0 | 28.5 |
| MEAN | | | 45.1 | 55.9 | 17.0 | 29.8 |
| C.V. | | | 6.4 | 1.6 | 2.2 | 3.7 |
| PROBABILITY (ENTRY) | | | <0.001 | <0.001 | <0.001 | <0.001 |
| LSD(0.05) | | | 5.2 | 1.6 | 0.7 | 2.0 |
| LATTICE RE(%) ¹⁾ | | | 133 | 112 | 159 | 113 |

bold : highest or earliest value within a column

bold : equal value to highest or earliest value within a column based LSD(0.05)

2021 OFF-STATION : HUNTLEY (IRRIGATION) : 9909

| ENTRY | ID | VARIETY / PEDIGREE | YIELD (BU/AC) | TEST WEIGHT (LB/BU) | PROTEIN (%) | HEADING DATE (JULIAN) | PLANT HEIGHT (IN.) |
|----------------------------|-----------|---------------------------------------|------------------|---------------------------|----------------|-----------------------------|--------------------------|
| 19 | MT 1904 | VIDA///MT1018//CHOTEAU/YELLOWSTONE | 107.3 | 63.7 | 15.0 | 165.2 | 34.1 |
| 16 | MT 1716 | MT SIDNEY | 106.2 | 63.7 | 14.4 | 164.3 | 38.1 |
| 13 | WB9879CLP | WB9879CLP | 103.8 | 64.1 | 14.5 | 164.2 | 38.5 |
| 14 | PI 633974 | CHOTEAU | 103.6 | 63.4 | 14.6 | 164.6 | 39.2 |
| 6 | ND 695 | REEDER | 98.4 | 64.1 | 14.9 | 165.6 | 35.7 |
| 4 | BZ 92413R | WB GUNNISON | 98.1 | 63.3 | 13.8 | 165.5 | 34.4 |
| 7 | PI 642366 | VIDA | 97.8 | 61.9 | 14.6 | 165.9 | 34.9 |
| 20 | MT 1927 | MT1203/MT1234 | 97.6 | 61.5 | 14.9 | 167.0 | 33.9 |
| 17 | MT 1809 | VIDA/M0 09/3-4 | 97.2 | 61.4 | 15.6 | 164.8 | 35.1 |
| 25 | MT 1951 | LANNING/EGAN | 96.3 | 62.2 | 15.2 | 164.6 | 36.4 |
| 23 | MT 1938 | LANNING///MT1018//CHOTEAU/YELLOWSTONE | 95.3 | 63.5 | 15.0 | 164.0 | 35.2 |
| 3 | AGRIPR141 | SY INGMAR | 93.1 | 63.1 | 14.4 | 166.8 | 37.3 |
| 1 | AGRIPR 10 | BRENNAN | 93.0 | 64.8 | 14.4 | 164.6 | 32.1 |
| 9 | PI 671855 | EGAN | 92.3 | 62.3 | 15.8 | 166.6 | 34.0 |
| 24 | MT 1939 | LANNING///MT1018//CHOTEAU/YELLOWSTONE | 92.1 | 62.0 | 14.0 | 164.6 | 38.2 |
| 15 | WSCIA | ALUM | 91.3 | 63.8 | 14.0 | 165.1 | 32.5 |
| 11 | PI 679964 | NS PRESSER CLP | 91.0 | 62.1 | 14.5 | 167.1 | 34.2 |
| 12 | PI 690450 | DAGMAR | 89.8 | 63.9 | 15.1 | 163.0 | 37.1 |
| 8 | PI 660981 | DUCLAIR | 89.4 | 62.1 | 14.5 | 163.5 | 38.2 |
| 10 | PI 676978 | LANNING | 89.2 | 63.3 | 15.2 | 162.4 | 35.9 |
| 18 | MT 1855 | MT1053/MO8/3-4 | 89.0 | 62.2 | 15.5 | 167.0 | 34.5 |
| 5 | BZ 996434 | CORBIN | 86.4 | 63.5 | 14.2 | 164.4 | 34.7 |
| 22 | MT 1934 | VIDA/MT1319 | 84.9 | 63.0 | 14.5 | 163.4 | 38.0 |
| 2 | AGRIPR 14 | SY SOREN | 83.9 | 62.9 | 15.2 | 165.4 | 34.2 |
| 21 | MT 1931 | LANNING/MT1319 | 81.1 | 63.7 | 14.5 | 162.2 | 32.7 |
| MEAN | | | 93.9 | 63.0 | 14.7 | 164.9 | 35.6 |
| C.V. | | | 9.8 | 1.1 | 3.0 | 0.3 | 4.7 |
| PROBABILITY (ENTRY) | | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| LSD(0.05) | | | 16.8 | 1.2 | 0.8 | 0.9 | 3.9 |
| LATTICE RE(%) ¹ | | | 231 | 143 | 106 | 200 | 155 |

bold : highest or earliest value within a column

bold : equal value to highest or earliest value within a column based LSD(0.05)

2021 OFF-STATION : TURNER (DRY) : 9951

| ENTRY | ID | VARIETY / PEDIGREE | YIELD (BU/AC) | TEST WEIGHT (LB/BU) | PROTEIN (%) | PLANT HEIGHT (IN.) | SAWFLY CUT (%) | FALLING NO. |
|-----------------------------|-----------|---------------------------------------|------------------|---------------------------|----------------|--------------------------|----------------------|----------------|
| 11 | PI 679964 | NS PRESSER CLP | 23.9 | 58.1 | 15.0 | 17.5 | 5.0 | 378 |
| 22 | MT 1934 | VIDA/MT1319 | 23.4 | 56.6 | 15.3 | 17.8 | 1.0 | 374 |
| 21 | MT 1931 | LANNING/MT1319 | 21.5 | 55.2 | 15.1 | 17.8 | 18.3 | 315 |
| 12 | PI 690450 | DAGMAR | 21.3 | 58.3 | 16.3 | 17.3 | 1.7 | 396 |
| 20 | MT 1927 | MT1203/MT1234 | 20.5 | 55.2 | 16.6 | 16.8 | 0.3 | 335 |
| 17 | MT 1809 | VIDA/M0 09/3-4 | 20.2 | 55.4 | 16.7 | 15.9 | 2.3 | 364 |
| 7 | PI 642366 | VIDA | 19.8 | 57.7 | 15.3 | 15.5 | 0.7 | 347 |
| 23 | MT 1938 | LANNING///MT1018//CHOTEAU/YELLOWSTONE | 19.7 | 55.0 | 15.8 | 17.2 | 0.7 | 374 |
| 13 | WB9879CLP | WB9879CLP | 19.2 | 57.0 | 16.2 | 17.0 | 1.0 | 428 |
| 10 | PI 676978 | LANNING | 19.1 | 56.6 | 15.8 | 16.7 | 10.0 | 360 |
| 6 | ND 695 | REEDER | 18.0 | 56.8 | 16.1 | 16.7 | 3.7 | 367 |
| 24 | MT 1939 | LANNING///MT1018//CHOTEAU/YELLOWSTONE | 17.8 | 55.2 | 15.8 | 17.1 | 3.7 | 338 |
| 18 | MT 1855 | MT1053/MO8/3-4 | 17.6 | 57.9 | 16.4 | 15.6 | 3.7 | 386 |
| 25 | MT 1951 | LANNING/EGAN | 17.5 | 53.1 | 17.3 | 18.2 | 7.0 | 385 |
| 19 | MT 1904 | VIDA///MT1018//CHOTEAU/YELLOWSTONE | 17.3 | 58.8 | 16.1 | 16.9 | 0.7 | 316 |
| 3 | AGRIPR141 | SY INGMAR | 17.2 | 58.3 | 16.5 | 16.0 | 5.0 | 395 |
| 5 | BZ 996434 | CORBIN | 17.1 | 57.7 | 16.4 | 16.8 | 2.3 | 381 |
| 9 | PI 671855 | EGAN | 17.1 | 56.1 | 17.5 | 17.0 | 10.0 | 433 |
| 16 | MT 1716 | MT SIDNEY | 17.1 | 58.2 | 16.5 | 18.0 | 2.0 | 353 |
| 14 | PI 633974 | CHOTEAU | 17.1 | 55.9 | 16.3 | 17.3 | 0.7 | 360 |
| 2 | AGRIPR 14 | SY SOREN | 16.0 | 56.8 | 17.2 | 16.1 | 6.7 | 414 |
| 8 | PI 660981 | DUCLAIR | 16.0 | 53.7 | 16.4 | 17.9 | 1.0 | 325 |
| 15 | WSCIA | ALUM | 15.4 | 57.6 | 16.6 | 16.6 | 6.7 | 370 |
| 4 | BZ 92413R | WB GUNNISON | 15.3 | 56.5 | 15.6 | 17.2 | 0.7 | 333 |
| 1 | AGRIPR 10 | BRENNAN | 14.0 | 56.7 | 16.6 | 16.3 | 11.7 | 392 |
| MEAN | | | 18.4 | 56.6 | 16.2 | 16.9 | 4.3 | 369 |
| C.V. | | | 9.6 | 1.7 | 1.9 | 5.0 | 57.7 | 4.7 |
| PROBABILITY (ENTRY) | | | <0.001 | <0.001 | <0.001 | <0.01 | <0.001 | <0.001 |
| LSD(0.05) | | | 2.8 | 1.5 | 0.4 | 1.3 | 4.3 | 27 |
| LATTICE RE(%) ¹⁾ | | | 112.9 | 113.0 | 129.1 | 101.7 | 89.3 | 113.7 |

bold : highest or earliest value within a column

bold : equal value to highest or earliest value within a column based LSD(0.05)

2021 OFF-STATION : CHESTER (DRY) : 9953

| ENTRY | ID | VARIETY / PEDIGREE | YIELD (BU/AC) | TEST WEIGHT (LB/BU) | PROTEIN (%) | PLANT HEIGHT (IN.) | SAWFLY CUT (%) |
|----------------------------|-----------|---------------------------------------|------------------|---------------------------|----------------|--------------------------|----------------------|
| 12 | PI 690450 | DAGMAR | 26.5 | 55.2 | 16.4 | 23.6 | 4.0 |
| 23 | MT 1938 | LANNING///MT1018//CHOTEAU/YELLOWSTONE | 26.4 | 53.4 | 15.7 | 21.1 | 11.7 |
| 13 | WB9879CLP | WB9879CLP | 26.1 | 54.1 | 16.6 | 19.5 | 5.3 |
| 19 | MT 1904 | VIDA///MT1018//CHOTEAU/YELLOWSTONE | 26.0 | 56.6 | 16.2 | 22.9 | 3.7 |
| 4 | BZ 92413R | WB GUNNISON | 25.7 | 55.2 | 15.7 | 20.7 | 0.0 |
| 24 | MT 1939 | LANNING///MT1018//CHOTEAU/YELLOWSTONE | 24.6 | 52.7 | 15.7 | 22.1 | 28.3 |
| 15 | WSCIA | ALUM | 24.4 | 57.7 | 16.2 | 22.0 | 11.7 |
| 18 | MT 1855 | MT1053/MO8/3-4 | 24.3 | 55.1 | 15.9 | 23.2 | 23.3 |
| 5 | BZ 996434 | CORBIN | 24.1 | 55.1 | 16.2 | 24.2 | 10.3 |
| 7 | PI 642366 | VIDA | 23.6 | 54.7 | 15.6 | 22.9 | 20.0 |
| 21 | MT 1931 | LANNING/MT1319 | 23.4 | 51.7 | 16.0 | 19.9 | 50.0 |
| 11 | PI 679964 | NS PRESSER CLP | 23.3 | 54.4 | 15.5 | 23.7 | 11.7 |
| 22 | MT 1934 | VIDA/MT1319 | 23.1 | 52.4 | 15.7 | 21.7 | 8.7 |
| 20 | MT 1927 | MT1203/MT1234 | 23.0 | 53.4 | 17.2 | 21.3 | 2.3 |
| 1 | AGRIPR 10 | BRENNAN | 22.7 | 55.9 | 16.4 | 19.1 | 18.3 |
| 10 | PI 676978 | LANNING | 22.7 | 52.8 | 16.0 | 22.0 | 25.0 |
| 17 | MT 1809 | VIDA/MO 09/3-4 | 22.6 | 53.6 | 16.7 | 23.8 | 21.7 |
| 9 | PI 671855 | EGAN | 22.2 | 52.8 | 17.0 | 22.5 | 41.7 |
| 8 | PI 660981 | DUCLAIR | 22.1 | 52.9 | 16.3 | 22.1 | 3.7 |
| 14 | PI 633974 | CHOTEAU | 22.0 | 53.8 | 16.6 | 21.6 | 10.3 |
| 25 | MT 1951 | LANNING/EGAN | 21.1 | 50.8 | 17.1 | 20.6 | 20.0 |
| 16 | MT 1716 | MT SIDNEY | 20.1 | 54.2 | 15.9 | 24.3 | 25.0 |
| 2 | AGRIPR 14 | SY SOREN | 20.1 | 54.1 | 16.6 | 21.8 | 20.0 |
| 6 | ND 695 | REEDER | 19.5 | 54.1 | 16.2 | 21.9 | 25.0 |
| 3 | AGRIPR141 | SY INGMAR | 19.4 | 54.6 | 16.9 | 21.0 | 25.0 |
| MEAN | | | 23.2 | 54.1 | 16.2 | 22.0 | 17.1 |
| C.V. | | | 6.7 | 1.1 | 1.8 | 5.4 | 46.7 |
| PROBABILITY (ENTRY) | | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| LSD(0.05) | | | 2.0 | 1.0 | 0.5 | 1.6 | 13.1 |
| LATTICE RE(%) ¹ | | | 162.9 | 92.1 | 115.8 | 146.4 | 100.0 |

bold : highest or earliest value within a column

bold : equal value to highest or earliest value within a column based LSD(0.05)

2021 OFF-STATION : LORING (DRY) : 9955

| ENTRY | ID | VARIETY / PEDIGREE | YIELD (BU/AC) | TEST WEIGHT (LB/BU) | PROTEIN (%) | PLANT HEIGHT (IN.) | FALLING NO. |
|----------------------------|-----------|---------------------------------------|------------------|---------------------------|----------------|--------------------------|----------------|
| 21 | MT 1931 | LANNING/MT1319 | 38.4 | 56.9 | 15.7 | 17.4 | 365 |
| 22 | MT 1934 | VIDA/MT1319 | 37.4 | 57.6 | 15.4 | 18.4 | 367 |
| 23 | MT 1938 | LANNING///MT1018//CHOTEAU/YELLOWSTONE | 37.0 | 57.5 | 15.7 | 20.9 | 375 |
| 24 | MT 1939 | LANNING///MT1018//CHOTEAU/YELLOWSTONE | 36.9 | 57.5 | 15.5 | 19.5 | 385 |
| 10 | PI 676978 | LANNING | 36.3 | 56.5 | 16.1 | 21.3 | 399 |
| 7 | PI 642366 | VIDA | 35.2 | 58.8 | 15.0 | 21.0 | 370 |
| 17 | MT 1809 | VIDA/M0 09/3-4 | 34.8 | 57.1 | 16.5 | 20.0 | 419 |
| 16 | MT 1716 | MT SIDNEY | 33.8 | 59.6 | 15.9 | 19.6 | 451 |
| 13 | WB9879CLP | WB9879CLP | 33.7 | 57.9 | 16.3 | 21.4 | 446 |
| 20 | MT 1927 | MT1203/MT1234 | 33.6 | 56.9 | 17.0 | 20.7 | 393 |
| 12 | PI 690450 | DAGMAR | 32.9 | 59.0 | 16.1 | 22.1 | 419 |
| 9 | PI 671855 | EGAN | 32.5 | 57.3 | 17.5 | 19.8 | 493 |
| 14 | PI 633974 | CHOTEAU | 32.4 | 58.4 | 16.0 | 20.1 | 419 |
| 11 | PI 679964 | NS PRESSER CLP | 32.1 | 57.9 | 15.1 | 20.6 | 395 |
| 25 | MT 1951 | LANNING/EGAN | 31.8 | 55.0 | 17.2 | 20.3 | 401 |
| 2 | AGRIPR 14 | SY SOREN | 31.4 | 58.2 | 16.6 | 19.4 | 446 |
| 5 | BZ 996434 | CORBIN | 31.3 | 59.3 | 16.2 | 19.3 | 389 |
| 15 | WSCIA | ALUM | 30.9 | 60.4 | 15.8 | 20.4 | 424 |
| 6 | ND 695 | REEDER | 30.1 | 58.5 | 16.3 | 19.9 | 378 |
| 8 | PI 660981 | DUCLAIR | 30.0 | 57.3 | 16.2 | 20.2 | 373 |
| 19 | MT 1904 | VIDA///MT1018//CHOTEAU/YELLOWSTONE | 29.8 | 60.4 | 15.9 | 20.9 | 398 |
| 18 | MT 1855 | MT1053/MO8/3-4 | 29.3 | 58.9 | 16.0 | 20.9 | 437 |
| 4 | BZ 92413R | WB GUNNISON | 28.9 | 59.1 | 15.4 | 19.1 | 427 |
| 1 | AGRIPR 10 | BRENNAN | 28.9 | 59.4 | 16.4 | 17.7 | 429 |
| 3 | AGRIPR141 | SY INGMAR | 28.5 | 58.3 | 16.6 | 19.9 | 434 |
| MEAN | | | 32.7 | 58.2 | 16.1 | 20.0 | 409 |
| C.V. | | | 5.2 | 0.8 | 1.3 | 4.4 | 3.4 |
| PROBABILITY (ENTRY) | | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| LSD(0.05) | | | 2.9 | 0.6 | 0.4 | 1.5 | 24 |
| LATTICE RE(%) ¹ | | | 94.2 | 147.6 | 93.2 | 90.9 | 92.6 |

bold : highest or earliest value within a column

bold : equal value to highest or earliest value within a column based LSD(0.05)

2021 OFF-STATION : LOMA (DRY) : 9957

| ENTRY | ID | VARIETY / PEDIGREE | YIELD (BU/AC) | TEST WEIGHT (LB/BU) | PROTEIN (%) | PLANT HEIGHT (IN.) | SAWFLY CUT (%) | FALLING NO. |
|-----------------------------|-----------|---------------------------------------|------------------|---------------------------|----------------|--------------------------|----------------------|----------------|
| 5 | BZ 996434 | CORBIN | 19.4 | 56.0 | 16.0 | 23.6 | 12.0 | 357 |
| 4 | BZ 92413R | WB GUNNISON | 17.7 | 56.4 | 15.3 | 20.3 | 0.0 | 420 |
| 12 | PI 690450 | DAGMAR | 16.9 | 56.1 | 15.6 | 21.7 | 11.7 | 387 |
| 23 | MT 1938 | LANNING///MT1018//CHOTEAU/YELLOWSTONE | 16.6 | 56.0 | 15.1 | 21.7 | 26.7 | 364 |
| 13 | WB9879CLP | WB9879CLP | 16.3 | 54.7 | 16.1 | 21.2 | 2.3 | 426 |
| 24 | MT 1939 | LANNING///MT1018//CHOTEAU/YELLOWSTONE | 16.2 | 55.2 | 14.8 | 21.8 | 23.3 | 379 |
| 8 | PI 660981 | DUCLAIR | 16.0 | 53.4 | 16.5 | 23.4 | 12.0 | 374 |
| 15 | WSCIA | ALUM | 15.5 | 56.1 | 15.6 | 21.6 | 23.3 | 412 |
| 7 | PI 642366 | VIDA | 14.9 | 54.3 | 15.2 | 22.6 | 21.7 | 400 |
| 17 | MT 1809 | VIDA/M0 09/3-4 | 14.8 | 53.0 | 16.4 | 22.0 | 26.7 | 439 |
| 2 | AGRIPR 14 | SY SOREN | 14.7 | 54.7 | 16.1 | 22.4 | 43.3 | 468 |
| 1 | AGRIPR 10 | BRENNAN | 14.7 | 57.3 | 15.6 | 21.7 | 46.7 | 433 |
| 20 | MT 1927 | MT1203/MT1234 | 14.6 | 51.4 | 17.2 | 22.8 | 13.3 | 381 |
| 14 | PI 633974 | CHOTEAU | 14.4 | 54.5 | 15.6 | 21.5 | 5.3 | 399 |
| 22 | MT 1934 | VIDA/MT1319 | 14.3 | 54.9 | 15.3 | 23.5 | 43.3 | 359 |
| 19 | MT 1904 | VIDA///MT1018//CHOTEAU/YELLOWSTONE | 13.9 | 56.3 | 16.0 | 19.3 | 1.0 | 414 |
| 16 | MT 1716 | MT SIDNEY | 13.5 | 55.1 | 15.4 | 22.5 | 23.3 | 437 |
| 21 | MT 1931 | LANNING/MT1319 | 13.4 | 55.7 | 14.7 | 21.9 | 71.7 | 324 |
| 25 | MT 1951 | LANNING/EGAN | 13.1 | 52.9 | 16.4 | 21.8 | 40.0 | 395 |
| 9 | PI 671855 | EGAN | 12.8 | 52.6 | 16.4 | 18.7 | 45.0 | 459 |
| 11 | PI 679964 | NS PRESSER CLP | 12.7 | 52.6 | 15.5 | 22.8 | 25.0 | 417 |
| 18 | MT 1855 | MT1053/MO8/3-4 | 12.0 | 54.7 | 15.4 | 22.3 | 10.3 | 470 |
| 6 | ND 695 | REEDER | 11.1 | 53.7 | 15.7 | 22.8 | 51.7 | 380 |
| 10 | PI 676978 | LANNING | 10.4 | 53.5 | 15.6 | 18.9 | 66.7 | 389 |
| 3 | AGRIPR141 | SY INGMAR | 8.8 | 56.1 | 15.7 | 20.1 | 40.0 | 406 |
| MEAN | | | 14.4 | 54.7 | 15.7 | 21.7 | 27.5 | 404 |
| C.V. | | | 10.7 | 1.2 | 2.5 | 4.7 | 32.2 | 3.6 |
| PROBABILITY (ENTRY) | | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| LSD(0.05) | | | 2.0 | 0.9 | 0.6 | 1.6 | 14.3 | 23 |
| LATTICE RE(%) ¹⁾ | | | 156.8 | 155.0 | 117.0 | 108.5 | 100.0 | 102.6 |

bold : highest or earliest value within a column

bold : equal value to highest or earliest value within a column based LSD(0.05)

2021 OFF-STATION : KNEES (DRY) : 9967

| ENTRY | ID | VARIETY / PEDIGREE | YIELD (BU/AC) | TEST WEIGHT (LB/BU) | PROTEIN (%) | HEADING DATE (JULIAN) | PLANT HEIGHT (IN.) |
|----------------------------|-----------|---------------------------------------|------------------|---------------------------|----------------|-----------------------------|--------------------------|
| 20 | MT 1927 | MT1203/MT1234 | 61.4 | 57.2 | 14.5 | 185.7 | <u>26.7</u> |
| 24 | MT 1939 | LANNING///MT1018//CHOTEAU/YELLOWSTONE | 54.0 | 58.7 | 14.0 | 185.0 | 26.0 |
| 22 | MT 1934 | VIDA/MT1319 | 52.1 | 58.9 | 15.1 | 185.0 | 25.0 |
| 7 | PI 642366 | VIDA | 51.8 | 59.4 | 14.4 | 185.7 | <u>28.0</u> |
| 17 | MT 1809 | VIDA/MO 09/3-4 | 51.3 | 58.1 | 15.3 | 185.0 | <u>27.3</u> |
| 14 | PI 633974 | CHOTEAU | 50.9 | 58.8 | 14.7 | 185.0 | <u>27.0</u> |
| 21 | MT 1931 | LANNING/MT1319 | 50.8 | 58.8 | 14.5 | 185.0 | 25.7 |
| 23 | MT 1938 | LANNING///MT1018//CHOTEAU/YELLOWSTONE | 50.4 | 57.6 | 15.3 | 185.0 | 24.7 |
| 8 | PI 660981 | DUCLAIR | 49.5 | 58.4 | 14.9 | 185.3 | <u>26.3</u> |
| 11 | PI 679964 | NS PRESSER CLP | 49.3 | 58.2 | 14.3 | 185.7 | 28.3 |
| 10 | PI 676978 | LANNING | 48.7 | 59.1 | 15.4 | 185.0 | 23.7 |
| 13 | WB9879CLP | WB9879CLP | 48.6 | 57.9 | 15.0 | 185.0 | 24.3 |
| 1 | AGRIPR 10 | BRENNAN | 47.8 | <u>60.0</u> | 15.4 | 185.0 | 24.0 |
| 4 | BZ 92413R | WB GUNNISON | 47.7 | 59.5 | 14.1 | 185.0 | 25.7 |
| 16 | MT 1716 | MT SIDNEY | 47.7 | 59.4 | 15.1 | 185.3 | <u>27.7</u> |
| 19 | MT 1904 | VIDA///MT1018//CHOTEAU/YELLOWSTONE | 47.2 | 59.7 | 15.1 | 185.3 | <u>27.7</u> |
| 18 | MT 1855 | MT1053/MO8/3-4 | 46.3 | 58.7 | <u>16.2</u> | 186.0 | <u>28.0</u> |
| 2 | AGRIPR 14 | SY SOREN | 46.0 | 59.4 | 15.7 | 185.3 | 23.3 |
| 15 | WSCIA | ALUM | 45.8 | 60.4 | 14.3 | 186.3 | <u>26.3</u> |
| 3 | AGRIPR141 | SY INGMAR | 45.8 | 59.8 | 15.3 | 185.3 | 24.0 |
| 6 | ND 695 | REEDER | 45.5 | 59.4 | 14.9 | 185.0 | <u>26.7</u> |
| 5 | BZ 996434 | CORBIN | 44.5 | 59.5 | 14.2 | 185.0 | <u>27.3</u> |
| 9 | PI 671855 | EGAN | 44.0 | 58.0 | 15.4 | 185.7 | 25.7 |
| 25 | MT 1951 | LANNING/EGAN | 43.0 | 55.6 | 16.4 | 185.3 | 25.7 |
| 12 | PI 690450 | DAGMAR | 42.0 | 59.3 | 15.7 | 185.3 | 25.3 |
| MEAN | | | 48.5 | 58.8 | 15.0 | 185.3 | 26.0 |
| C.V. | | | 13.0 | 0.7 | 2.1 | 0.3 | 5.0 |
| PROBABILITY (ENTRY) | | | ns | <0.001 | <0.001 | ns | <0.001 |
| LSD(0.05) | | | - | 0.6 | 0.5 | - | 2.2 |
| LATTICE RE(%) ¹ | | | 109.3 | 110.1 | 124.7 | 97.7 | 96.9 |

bold : highest or earliest value within a column

bold : equal value to highest or earliest value within a column based LSD(0.05)

2021 OFF-STATION : MOCCASIN (DRY) : 9970

| ENTRY | ID | VARIETY / PEDIGREE | YIELD (BU/AC) | TEST WEIGHT (LB/BU) | PROTEIN (%) | HEADING DATE (JULIAN) | PLANT HEIGHT (IN.) |
|----------------------------|-----------|---------------------------------------|------------------|---------------------------|----------------|-----------------------------|--------------------------|
| 11 | PI 679964 | NS PRESSER CLP | 28.0 | 56.0 | 16.3 | 180.5 | 20.7 |
| 23 | MT 1938 | LANNING///MT1018//CHOTEAU/YELLOWSTONE | 27.0 | 55.8 | 16.5 | 176.9 | 21.4 |
| 12 | PI 690450 | DAGMAR | 25.9 | 57.5 | 16.4 | 177.8 | 20.6 |
| 10 | PI 676978 | LANNING | 25.2 | 55.7 | 16.8 | 176.9 | 21.0 |
| 22 | MT 1934 | VIDA/MT1319 | 25.1 | 56.5 | 16.3 | 177.3 | 22.1 |
| 21 | MT 1931 | LANNING/MT1319 | 25.0 | 55.7 | 16.2 | 177.0 | 20.7 |
| 16 | MT 1716 | MT SIDNEY | 24.7 | 56.8 | 16.8 | 178.5 | 21.8 |
| 14 | PI 633974 | CHOTEAU | 24.5 | 56.0 | 17.3 | 178.9 | 20.2 |
| 18 | MT 1855 | MT1053/MO8/3-4 | 24.4 | 56.6 | 16.7 | 180.1 | 20.7 |
| 1 | AGRIPR 10 | BRENNAN | 24.3 | 57.9 | 17.2 | 177.4 | 21.3 |
| 24 | MT 1939 | LANNING///MT1018//CHOTEAU/YELLOWSTONE | 24.2 | 56.1 | 16.2 | 177.9 | 19.7 |
| 17 | MT 1809 | VIDA/MO 09/3-4 | 23.6 | 55.7 | 16.8 | 178.5 | 19.8 |
| 6 | ND 695 | REEDER | 23.6 | 57.2 | 16.9 | 180.1 | 22.0 |
| 7 | PI 642366 | VIDA | 23.5 | 56.3 | 16.3 | 179.5 | 20.1 |
| 20 | MT 1927 | MT1203/MT1234 | 23.4 | 53.2 | 17.4 | 180.0 | 20.5 |
| 19 | MT 1904 | VIDA///MT1018//CHOTEAU/YELLOWSTONE | 23.2 | 58.6 | 16.8 | 179.4 | 19.2 |
| 3 | AGRIPR141 | SY INGMAR | 22.9 | 56.4 | 17.3 | 178.9 | 20.6 |
| 4 | BZ 92413R | WB GUNNISON | 22.8 | 57.5 | 16.2 | 178.2 | 20.5 |
| 15 | WSCIA | ALUM | 22.2 | 58.0 | 16.7 | 178.1 | 19.7 |
| 25 | MT 1951 | LANNING/EGAN | 22.2 | 52.9 | 17.7 | 178.2 | 19.7 |
| 13 | WB9879CLP | WB9879CLP | 21.9 | 55.6 | 17.3 | 179.3 | 18.5 |
| 8 | PI 660981 | DUCLAIR | 21.9 | 55.6 | 16.3 | 177.1 | 20.7 |
| 5 | BZ 996434 | CORBIN | 21.4 | 57.8 | 16.9 | 177.4 | 21.1 |
| 9 | PI 671855 | EGAN | 21.1 | 55.3 | 18.1 | 180.0 | 19.9 |
| 2 | AGRIPR 14 | SY SOREN | 20.0 | 56.1 | 17.1 | 178.7 | 19.2 |
| MEAN | | | 23.7 | 56.3 | 16.8 | 178.5 | 20.5 |
| C.V. | | | 17.1 | 0.8 | 0.7 | 0.4 | 6.3 |
| PROBABILITY (ENTRY) | | | ns | <0.001 | <0.001 | <0.001 | ns |
| LSD(0.05) | | | - | 0.6 | 0.6 | 1.1 | - |
| LATTICE RE(%) ¹ | | | 185.5 | 194.5 | 133.1 | 118.6 | 156.8 |

bold : highest or earliest value within a column

bold : equal value to highest or earliest value within a column based LSD(0.05)

2021 OFF-STATION : DENTON (DRY) : 9971

| ENTRY | ID | VARIETY / PEDIGREE | YIELD (BU/AC) | TEST WEIGHT (LB/BU) | PROTEIN (%) | PLANT HEIGHT (IN.) |
|-----------------------------|-----------|---------------------------------------|------------------|---------------------------|----------------|--------------------------|
| 11 | PI 679964 | NS PRESSER CLP | <u>13.6</u> | 57.2 | 17.1 | <u>17.8</u> |
| 23 | MT 1938 | LANNING///MT1018//CHOTEAU/YELLOWSTONE | 13.2 | 56.5 | 17.5 | 17.4 |
| 7 | PI 642366 | VIDA | 12.1 | 56.6 | 16.7 | 16.6 |
| 17 | MT 1809 | VIDA/M0 09/3-4 | 11.9 | 56.6 | 17.2 | 16.2 |
| 20 | MT 1927 | MT1203/MT1234 | 11.8 | 56.0 | 17.7 | 17.6 |
| 18 | MT 1855 | MT1053/MO8/3-4 | 11.7 | 57.9 | 17.4 | 17.2 |
| 16 | MT 1716 | MT SIDNEY | 11.7 | 55.7 | 17.4 | <u>17.8</u> |
| 24 | MT 1939 | LANNING///MT1018//CHOTEAU/YELLOWSTONE | 11.5 | 55.3 | 17.1 | 15.9 |
| 22 | MT 1934 | VIDA/MT1319 | 11.4 | 56.7 | 17.3 | 16.1 |
| 25 | MT 1951 | LANNING/EGAN | 11.3 | 54.4 | <u>18.5</u> | 17.0 |
| 21 | MT 1931 | LANNING/MT1319 | 11.3 | 56.0 | 17.3 | 15.5 |
| 6 | ND 695 | REEDER | 11.0 | <u>58.7</u> | 17.4 | 16.2 |
| 14 | PI 633974 | CHOTEAU | 9.6 | 58.5 | 17.4 | 16.4 |
| 10 | PI 676978 | LANNING | 9.5 | 56.7 | 17.8 | 15.7 |
| 15 | WSCIA | ALUM | 9.2 | 57.6 | 16.6 | 17.2 |
| 8 | PI 660981 | DUCLAIR | 9.0 | 55.5 | 17.2 | 17.4 |
| 13 | WB9879CLP | WB9879CLP | 9.0 | 57.5 | 17.6 | 16.5 |
| 12 | PI 690450 | DAGMAR | 9.0 | 57.9 | 17.5 | 16.6 |
| 5 | BZ 996434 | CORBIN | 8.9 | 55.3 | 17.4 | 16.8 |
| 19 | MT 1904 | VIDA///MT1018//CHOTEAU/YELLOWSTONE | 8.7 | 55.0 | 17.5 | 15.9 |
| 3 | AGRIPR141 | SY INGMAR | 8.7 | 57.9 | 18.1 | 16.2 |
| 4 | BZ 92413R | WB GUNNISON | 8.6 | 55.9 | 16.6 | 16.1 |
| 2 | AGRIPR 14 | SY SOREN | 8.4 | 56.0 | 18.3 | 17.0 |
| 9 | PI 671855 | EGAN | 7.8 | 56.7 | 18.3 | 16.7 |
| 1 | AGRIPR 10 | BRENNAN | 6.8 | 43.3 | 18.2 | 15.2 |
| MEAN | | | 10.2 | 56.1 | 17.5 | 16.6 |
| C.V. | | | 24.6 | 5.5 | 1.7 | 7.8 |
| PROBABILITY (ENTRY) | | | ns | <0.001 | >0.001 | ns |
| LSD(0.05) | | | - | 4.8 | 0.5 | - |
| LATTICE RE(%) ¹⁾ | | | 182.1 | 113.6 | 113.4 | 119.8 |

bold : highest or earliest value within a column

bold : equal value to highest or earliest value within a column based LSD(0.05)

2021 OFF-STATION : GERALDINE (DRY) : 9972

| ENTRY | ID | VARIETY / PEDIGREE | YIELD (BU/AC) | TEST WEIGHT (LB/BU) | PROTEIN (%) | PLANT HEIGHT (IN.) |
|-----------------------------|-----------|---------------------------------------|------------------|---------------------------|----------------|--------------------------|
| 23 | MT 1938 | LANNING///MT1018//CHOTEAU/YELLOWSTONE | 22.5 | 58.0 | 17.4 | 21.5 |
| 21 | MT 1931 | LANNING/MT1319 | 22.2 | 57.9 | 17.9 | 22.2 |
| 8 | PI 660981 | DUCLAIR | 19.9 | 57.3 | 17.9 | 21.3 |
| 22 | MT 1934 | VIDA/MT1319 | 19.6 | 58.0 | 18.3 | 22.3 |
| 9 | PI 671855 | EGAN | 19.6 | 57.6 | 17.5 | 22.8 |
| 24 | MT 1939 | LANNING///MT1018//CHOTEAU/YELLOWSTONE | 19.5 | 58.2 | 17.2 | 20.4 |
| 15 | WSCIA | ALUM | 19.3 | 59.6 | 17.6 | 21.1 |
| 12 | PI 690450 | DAGMAR | 18.9 | 58.6 | 17.8 | 21.9 |
| 1 | AGRIPR 10 | BRENNAN | 18.4 | 60.2 | 17.5 | 20.2 |
| 17 | MT 1809 | VIDA/M0 09/3-4 | 18.3 | 57.1 | 18.2 | 21.4 |
| 16 | MT 1716 | MT SIDNEY | 18.1 | 58.6 | 18.0 | 22.6 |
| 20 | MT 1927 | MT1203/MT1234 | 17.9 | 55.7 | 17.1 | 21.4 |
| 25 | MT 1951 | LANNING/EGAN | 17.2 | 55.4 | 17.4 | 22.9 |
| 14 | PI 633974 | CHOTEAU | 16.9 | 58.2 | 17.8 | 19.9 |
| 19 | MT 1904 | VIDA///MT1018//CHOTEAU/YELLOWSTONE | 16.8 | 59.5 | 17.3 | 21.2 |
| 10 | PI 676978 | LANNING | 16.6 | 56.8 | 17.4 | 21.3 |
| 13 | WB9879CLP | WB9879CLP | 16.2 | 57.7 | 17.4 | 18.9 |
| 4 | BZ 92413R | WB GUNNISON | 16.0 | 58.3 | 17.2 | 18.7 |
| 6 | ND 695 | REEDER | 15.8 | 58.6 | 17.8 | 22.0 |
| 5 | BZ 996434 | CORBIN | 15.7 | 59.0 | 17.5 | 21.7 |
| 7 | PI 642366 | VIDA | 15.3 | 58.1 | 17.3 | 20.6 |
| 2 | AGRIPR 14 | SY SOREN | 14.5 | 58.4 | 17.8 | 20.0 |
| 18 | MT 1855 | MT1053/MO8/3-4 | 11.5 | 57.8 | 17.5 | 22.0 |
| 3 | AGRIPR141 | SY INGMAR | 11.4 | 57.5 | 17.7 | 21.0 |
| 11 | PI 679964 | NS PRESSER CLP | 9.2 | 54.9 | 17.8 | 21.9 |
| MEAN | | | 17.1 | 57.9 | 17.6 | 21.2 |
| C.V. | | | 12.0 | 1.7 | 3.8 | 5.2 |
| PROBABILITY (ENTRY) | | | <0.001 | <0.001 | ns | <0.001 |
| LSD(0.05) | | | 3.0 | 1.6 | - | 1.6 |
| LATTICE RE(%) ¹⁾ | | | 129.5 | 97.6 | 98.5 | 124.8 |

bold : highest or earliest value within a column

bold : equal value to highest or earliest value within a column based LSD(0.05)

2021 OFF-STATION : JUDITH GAP (DRY) : 9976

| ENTRY | ID | VARIETY / PEDIGREE | YIELD (BU/AC) | TEST WEIGHT (LB/BU) | PROTEIN (%) | PLANT HEIGHT (IN.) |
|-----------------------------|-----------|---------------------------------------|------------------|---------------------------|----------------|--------------------------|
| 21 | MT 1931 | LANNING/MT1319 | 24.3 | 59.8 | 16.9 | 22.8 |
| 10 | PI 676978 | LANNING | 23.1 | 59.4 | 17.1 | 21.8 |
| 22 | MT 1934 | VIDA/MT1319 | 23.0 | 59.2 | 16.9 | 22.5 |
| 16 | MT 1716 | MT SIDNEY | 22.3 | 59.3 | 16.6 | 21.8 |
| 2 | AGRIPR 14 | SY SOREN | 21.9 | 60.4 | 16.4 | 24.0 |
| 15 | WSCIA | ALUM | 21.9 | 61.3 | 17.4 | 22.4 |
| 7 | PI 642366 | VIDA | 21.3 | 59.7 | 17.2 | 20.4 |
| 17 | MT 1809 | VIDA/M0 09/3-4 | 20.7 | 59.0 | 17.0 | 21.8 |
| 18 | MT 1855 | MT1053/MO8/3-4 | 20.1 | 59.8 | 17.1 | 21.3 |
| 24 | MT 1939 | LANNING///MT1018//CHOTEAU/YELLOWSTONE | 20.0 | 58.9 | 17.1 | 23.1 |
| 6 | ND 695 | REEDER | 19.8 | 60.3 | 16.5 | 20.2 |
| 5 | BZ 996434 | CORBIN | 19.6 | 58.9 | 17.2 | 21.6 |
| 12 | PI 690450 | DAGMAR | 19.5 | 60.0 | 17.0 | 21.8 |
| 14 | PI 633974 | CHOTEAU | 19.5 | 59.0 | 17.0 | 20.9 |
| 13 | WB9879CLP | WB9879CLP | 19.4 | 59.5 | 16.7 | 21.5 |
| 11 | PI 679964 | NS PRESSER CLP | 19.1 | 58.6 | 16.6 | 20.4 |
| 20 | MT 1927 | MT1203/MT1234 | 18.9 | 57.5 | 17.4 | 21.1 |
| 23 | MT 1938 | LANNING///MT1018//CHOTEAU/YELLOWSTONE | 18.6 | 59.4 | 16.8 | 21.8 |
| 19 | MT 1904 | VIDA///MT1018//CHOTEAU/YELLOWSTONE | 18.3 | 61.2 | 16.7 | 23.4 |
| 1 | AGRIPR 10 | BRENNAN | 18.1 | 60.7 | 17.0 | 21.6 |
| 3 | AGRIPR141 | SY INGMAR | 17.9 | 59.4 | 16.9 | 20.8 |
| 4 | BZ 92413R | WB GUNNISON | 17.8 | 60.6 | 17.4 | 22.1 |
| 8 | PI 660981 | DUCLAIR | 17.4 | 58.2 | 16.3 | 20.6 |
| 9 | PI 671855 | EGAN | 15.3 | 55.6 | 16.6 | 22.1 |
| 25 | MT 1951 | LANNING/EGAN | 12.6 | 55.1 | 16.6 | 20.3 |
| MEAN | | | 19.6 | 59.2 | 16.9 | 21.7 |
| C.V. | | | 18.2 | 2.3 | 4.3 | 8.4 |
| PROBABILITY (ENTRY) | | | ns | <0.001 | ns | ns |
| LSD(0.05) | | | - | 2.4 | - | - |
| LATTICE RE(%) ¹⁾ | | | 115 | 87.8 | 99.9 | 111.6 |

bold : highest or earliest value within a column

bold : equal value to highest or earliest value within a column based LSD(0.05)

2021 OFF-STATION : BILLINGS (DRY) : 9994

| ENTRY | ID | VARIETY / PEDIGREE | YIELD (BU/AC) | TEST WEIGHT (LB/BU) | PROTEIN (%) | PLANT HEIGHT (IN.) |
|-----------------------------|-----------|---------------------------------------|------------------|---------------------------|----------------|--------------------------|
| 7 | PI 642366 | VIDA | <u>16.2</u> | 58.6 | 16.6 | 17.8 |
| 21 | MT 1931 | LANNING/MT1319 | 16.0 | 58.7 | 17.0 | 18.0 |
| 11 | PI 679964 | NS PRESSER CLP | 15.9 | 57.1 | 16.4 | 22.1 |
| 12 | PI 690450 | DAGMAR | 15.8 | 59.5 | 16.9 | 18.9 |
| 18 | MT 1855 | MT1053/MO8/3-4 | 15.7 | 58.5 | 17.6 | <u>24.0</u> |
| 22 | MT 1934 | VIDA/MT1319 | 15.7 | 59.1 | 17.2 | 15.7 |
| 9 | PI 671855 | EGAN | 15.1 | 54.6 | <u>19.3</u> | 20.4 |
| 17 | MT 1809 | VIDA/M0 09/3-4 | 15.0 | 58.2 | 17.2 | 17.0 |
| 10 | PI 676978 | LANNING | 14.8 | 57.8 | 17.7 | 17.3 |
| 24 | MT 1939 | LANNING///MT1018//CHOTEAU/YELLOWSTONE | 14.2 | 58.7 | 17.2 | 19.4 |
| 20 | MT 1927 | MT1203/MT1234 | 13.6 | 54.5 | 18.4 | 17.6 |
| 4 | BZ 92413R | WB GUNNISON | 13.0 | 58.5 | 16.8 | 17.0 |
| 6 | ND 695 | REEDER | 13.0 | 58.2 | 17.7 | 16.8 |
| 13 | WB9879CLP | WB9879CLP | 12.7 | 58.9 | 17.4 | 17.6 |
| 23 | MT 1938 | LANNING///MT1018//CHOTEAU/YELLOWSTONE | 12.5 | 58.1 | 17.9 | 16.5 |
| 19 | MT 1904 | VIDA///MT1018//CHOTEAU/YELLOWSTONE | 12.3 | 60.6 | 18.3 | 16.5 |
| 16 | MT 1716 | MT SIDNEY | 12.1 | 57.9 | 17.5 | 19.3 |
| 25 | MT 1951 | LANNING/EGAN | 11.6 | 55.6 | 18.6 | 17.3 |
| 15 | WSCIA | ALUM | 11.3 | 47.1 | 17.2 | 17.3 |
| 3 | AGRIPR141 | SY INGMAR | 11.0 | 57.6 | 18.9 | 16.0 |
| 1 | AGRIPR 10 | BRENNAN | 10.6 | <u>60.9</u> | 17.9 | 17.0 |
| 14 | PI 633974 | CHOTEAU | 10.6 | 58.4 | 17.8 | 16.7 |
| 8 | PI 660981 | DUCLAIR | 10.3 | 56.7 | 18.1 | 18.3 |
| 2 | AGRIPR 14 | SY SOREN | 9.9 | 59.2 | 18.4 | 16.3 |
| 5 | BZ 996434 | CORBIN | 5.5 | 45.6 | 18.2 | 17.3 |
| MEAN | | | 13.0 | 57.1 | 17.7 | 17.9 |
| C.V. | | | 17.6 | 7.5 | 3.4 | 7.8 |
| PROBABILITY (ENTRY) | | | <0.001 | <0.001 | <0.001 | <0.001 |
| LSD(0.05) | | | 3.8 | 7.4 | 1.0 | 2.4 |
| LATTICE RE(%) ¹⁾ | | | 100 | 105 | 100 | 108 |

bold : highest or earliest value within a column

bold : equal value to highest or earliest value within a column based LSD(0.05)

2021 OFF-STATION : BROADVIEW (DRY) : 9995

| ENTRY | ID | VARIETY / PEDIGREE | YIELD (BU/AC) | TEST WEIGHT (LB/BU) | PROTEIN (%) | PLANT HEIGHT (IN.) |
|-----------------------------|-----------|---------------------------------------|------------------|---------------------------|----------------|--------------------------|
| 12 | PI 690450 | DAGMAR | 61.4 | 58.1 | 17.6 | 18.8 |
| 23 | MT 1938 | LANNING///MT1018//CHOTEAU/YELLOWSTONE | 60.3 | 57.6 | 17.4 | 18.0 |
| 22 | MT 1934 | VIDA/MT1319 | 59.8 | 56.5 | 17.7 | 19.7 |
| 17 | MT 1809 | VIDA/MO 09/3-4 | 59.6 | 56.6 | 18.7 | 18.6 |
| 21 | MT 1931 | LANNING/MT1319 | 58.9 | 57.4 | 16.1 | 18.9 |
| 24 | MT 1939 | LANNING///MT1018//CHOTEAU/YELLOWSTONE | 58.0 | 57.1 | 17.4 | 18.2 |
| 11 | PI 679964 | NS PRESSER CLP | 55.2 | 56.2 | 17.9 | 18.8 |
| 16 | MT 1716 | MT SIDNEY | 55.0 | 57.6 | 17.2 | 19.3 |
| 6 | ND 695 | REEDER | 53.6 | 58.1 | 17.3 | 19.6 |
| 20 | MT 1927 | MT1203/MT1234 | 52.6 | 53.9 | 18.9 | 18.4 |
| 10 | PI 676978 | LANNING | 52.1 | 57.0 | 18.4 | 18.6 |
| 7 | PI 642366 | VIDA | 52.0 | 57.8 | 17.0 | 18.5 |
| 9 | PI 671855 | EGAN | 51.6 | 55.4 | 19.4 | 20.3 |
| 18 | MT 1855 | MT1053/MO8/3-4 | 51.6 | 57.8 | 19.3 | 20.4 |
| 14 | PI 633974 | CHOTEAU | 49.3 | 57.6 | 18.5 | 18.3 |
| 19 | MT 1904 | VIDA///MT1018//CHOTEAU/YELLOWSTONE | 49.0 | 59.9 | 18.3 | 17.9 |
| 5 | BZ 996434 | CORBIN | 48.8 | 58.3 | 18.4 | 17.9 |
| 4 | BZ 92413R | WB GUNNISON | 46.9 | 54.9 | 16.8 | 18.7 |
| 2 | AGRIPR 14 | SY SOREN | 45.8 | 57.6 | 19.0 | 17.9 |
| 13 | WB9879CLP | WB9879CLP | 45.0 | 57.9 | 18.7 | 18.1 |
| 15 | WSCIA | ALUM | 44.8 | 57.4 | 18.8 | 18.7 |
| 3 | AGRIPR141 | SY INGMAR | 43.0 | 56.9 | 18.6 | 18.2 |
| 1 | AGRIPR 10 | BRENNAN | 42.7 | 59.0 | 17.8 | 18.0 |
| 25 | MT 1951 | LANNING/EGAN | 42.4 | 54.6 | 19.2 | 19.5 |
| 8 | PI 660981 | DUCLAIR | 40.2 | 55.4 | 18.0 | 20.2 |
| MEAN | | | 51.2 | 57.1 | 18.1 | 18.8 |
| C.V. | | | 5.4 | 1.5 | 2.8 | 6.3 |
| PROBABILITY (ENTRY) | | | <0.001 | <0.001 | <0.001 | <0.001 |
| LSD(0.05) | | | 8.0 | 1.4 | 0.9 | 2.1 |
| LATTICE RE(%) ¹⁾ | | | 139 | 100 | 152 | 118 |

bold : highest or earliest value within a column

bold : equal value to highest or earliest value within a column based LSD(0.05)

2021 OFF-STATION : HYSHAM (IRRI) : 9996

| ENTRY | ID | VARIETY / PEDIGREE | YIELD (BU/AC) | TEST WEIGHT (LB/BU) | PROTEIN (%) | PLANT HEIGHT (IN.) |
|-----------------------------|-----------|--------------------------------------|------------------|---------------------------|----------------|--------------------------|
| 18 | MT 1855 | MT1053/MO8/3-4 | 89.7 | 63.5 | 14.5 | 32.8 |
| 21 | MT 1931 | LANNING/MT1319 | 88.2 | 63.1 | 15.5 | 28.8 |
| 17 | MT 1809 | VIDA/MO 09/3-4 | 86.2 | 63.3 | 14.8 | 28.4 |
| 10 | PI 676978 | LANNING | 86.0 | 62.9 | 15.9 | 29.1 |
| 19 | MT 1904 | VIDA//MT1018//CHOTEAU/YELLOWSTONE | 84.6 | 64.1 | 14.8 | 28.8 |
| 23 | MT 1938 | LANNING//MT1018//CHOTEAU/YELLOWSTONE | 84.6 | 62.9 | 15.4 | 29.9 |
| 13 | WB9879CLP | WB9879CLP | 83.7 | 63.6 | 15.4 | 28.1 |
| 22 | MT 1934 | VIDA/MT1319 | 82.1 | 63.1 | 15.0 | 29.0 |
| 12 | PI 690450 | DAGMAR | 82.0 | 63.2 | 15.6 | 31.1 |
| 2 | AGRIPR 14 | SY SOREN | 81.8 | 64.3 | 15.4 | 27.9 |
| 11 | PI 679964 | NS PRESSER CLP | 81.6 | 62.6 | 14.4 | 28.4 |
| 7 | PI 642366 | VIDA | 80.7 | 63.3 | 14.5 | 28.9 |
| 16 | MT 1716 | MT SIDNEY | 79.5 | 62.7 | 15.1 | 29.9 |
| 20 | MT 1927 | MT1203/MT1234 | 79.1 | 61.6 | 15.3 | 27.3 |
| 24 | MT 1939 | LANNING//MT1018//CHOTEAU/YELLOWSTONE | 77.8 | 62.6 | 15.0 | 28.0 |
| 1 | AGRIPR 10 | BRENNAN | 77.7 | 64.6 | 16.1 | 29.3 |
| 5 | BZ 996434 | CORBIN | 77.7 | 63.3 | 15.5 | 27.6 |
| 9 | PI 671855 | EGAN | 77.3 | 61.4 | 16.9 | 29.0 |
| 15 | WSCIA | ALUM | 75.3 | 62.3 | 14.8 | 29.0 |
| 6 | ND 695 | REEDER | 74.8 | 63.4 | 15.5 | 29.6 |
| 3 | AGRIPR141 | SY INGMAR | 73.2 | 63.8 | 14.9 | 28.8 |
| 4 | BZ 92413R | WB GUNNISON | 71.9 | 62.3 | 14.7 | 28.6 |
| 25 | MT 1951 | LANNING/EGAN | 70.9 | 59.2 | 16.7 | 28.2 |
| 8 | PI 660981 | DUCLAIR | 69.3 | 61.9 | 15.0 | 27.8 |
| 14 | PI 633974 | CHOTEAU | 68.4 | 62.2 | 15.5 | 27.2 |
| MEAN | | | 79.4 | 62.9 | 15.3 | 28.9 |
| C.V. | | | 3.5 | 0.6 | 1.9 | 3.4 |
| PROBABILITY (ENTRY) | | | <0.001 | <0.001 | <0.001 | <0.001 |
| LSD(0.05) | | | 5.1 | 0.7 | 0.5 | 1.8 |
| LATTICE RE(%) ¹⁾ | | | 322 | 153 | 215 | 153 |

bold : highest or earliest value within a column

bold : equal value to highest or earliest value within a column based LSD(0.05)

2021 OFF-STATION : FROMBERG (IRRI) : 9997

| ENTRY | ID | VARIETY / PEDIGREE | YIELD (BU/AC) | TEST WEIGHT (LB/BU) | PROTEIN (%) | PLANT HEIGHT (IN.) |
|-----------------------------|-----------|---------------------------------------|------------------|---------------------------|----------------|--------------------------|
| 17 | MT 1809 | VIDA/M0 09/3-4 | 87.2 | 61.2 | 12.8 | 32.0 |
| 22 | MT 1934 | VIDA/MT1319 | 84.3 | 62.1 | 12.3 | 32.9 |
| 11 | PI 679964 | NS PRESSER CLP | 81.8 | 61.7 | 12.1 | 33.7 |
| 19 | MT 1904 | VIDA///MT1018//CHOTEAU/YELLOWSTONE | 81.8 | 62.5 | 11.7 | 32.7 |
| 5 | BZ 996434 | CORBIN | 81.0 | 61.8 | 12.7 | 31.1 |
| 21 | MT 1931 | LANNING/MT1319 | 80.7 | 61.6 | 12.4 | 31.0 |
| 24 | MT 1939 | LANNING///MT1018//CHOTEAU/YELLOWSTONE | 80.7 | 62.0 | 11.3 | 32.3 |
| 12 | PI 690450 | DAGMAR | 80.4 | 62.2 | 12.4 | 32.9 |
| 13 | WB9879CLP | WB9879CLP | 79.2 | 61.6 | 12.1 | 32.8 |
| 7 | PI 642366 | VIDA | 79.1 | 61.9 | 12.0 | 32.9 |
| 15 | WSCIA | ALUM | 79.1 | 63.1 | 12.0 | 30.3 |
| 18 | MT 1855 | MT1053/MO8/3-4 | 77.5 | 61.2 | 12.7 | 33.9 |
| 14 | PI 633974 | CHOTEAU | 77.3 | 62.2 | 12.1 | 32.5 |
| 23 | MT 1938 | LANNING///MT1018//CHOTEAU/YELLOWSTONE | 77.3 | 60.5 | 12.0 | 31.1 |
| 20 | MT 1927 | MT1203/MT1234 | 77.2 | 60.0 | 12.3 | 31.9 |
| 16 | MT 1716 | MT SIDNEY | 76.8 | 60.8 | 11.5 | 33.5 |
| 4 | BZ 92413R | WB GUNNISON | 76.7 | 63.3 | 12.5 | 30.7 |
| 2 | AGRIPR 14 | SY SOREN | 73.8 | 61.8 | 12.7 | 29.8 |
| 8 | PI 660981 | DUCLAIR | 73.1 | 60.7 | 11.9 | 31.5 |
| 6 | ND 695 | REEDER | 72.5 | 62.3 | 12.5 | 33.5 |
| 25 | MT 1951 | LANNING/EGAN | 72.2 | 59.7 | 12.8 | 33.6 |
| 10 | PI 676978 | LANNING | 72.0 | 61.1 | 13.2 | 30.3 |
| 3 | AGRIPR141 | SY INGMAR | 70.7 | 60.6 | 12.7 | 30.8 |
| 9 | PI 671855 | EGAN | 68.9 | 59.8 | 13.7 | 32.8 |
| 1 | AGRIPR 10 | BRENNAN | 68.5 | 61.1 | 13.5 | 30.8 |
| MEAN | | | 77.2 | 61.5 | 12.4 | 32.1 |
| C.V. | | | 3.4 | 1.6 | 2.5 | 4.3 |
| PROBABILITY (ENTRY) | | | <0.001 | <0.001 | <0.001 | <0.001 |
| LSD(0.05) | | | 4.5 | 1.6 | 0.6 | 2.3 |
| LATTICE RE(%) ¹⁾ | | | 106 | 100 | 127 | 100 |

bold : highest or earliest value within a column

bold : equal value to highest or earliest value within a column based LSD(0.05)

2021 OFF-STATION : ROOSEVELT (DRY)

| ENTRY | ID | VARIETY / PEDIGREE | YIELD (BU/AC) | TEST WEIGHT (LB/BU) | PROTEIN (%) | PLANT HEIGHT (IN.) |
|---------------------|-----------|---------------------------------------|------------------|---------------------------|----------------|--------------------------|
| 14 | MT 1931 | MT1316/MT1319 | <u>27.7</u> | 55.6 | 17.9 | 26.1 |
| 16 | MT 1938 | MT1316///MT1018//CHOTEAU/YELLOWSTONE- | <u>26.8</u> | 56.9 | 17.4 | 24.8 |
| 1 | AGRIPR 10 | BRENNAN | <u>26.3</u> | <u>58.2</u> | 18.3 | 23.6 |
| 8 | PI 676978 | LANNING | <u>26.0</u> | 54.6 | 18.0 | 25.6 |
| 10 | PI 690450 | DAGMAR | <u>26.0</u> | 58.4 | 18.0 | 25.7 |
| 3 | AGRIPR141 | SY INGMAR | <u>25.3</u> | 56.4 | 18.8 | 24.4 |
| 15 | MT 1934 | VIDA/MT1319 | <u>24.2</u> | 56.4 | 17.2 | 26.4 |
| 4 | ND 695 | REEDER | <u>23.8</u> | <u>57.5</u> | 18.1 | 26.5 |
| 7 | PI 671855 | EGAN | 22.2 | 54.8 | 19.9 | 25.2 |
| 5 | PI 642366 | VIDA | 21.5 | 57.4 | 17.5 | 24.3 |
| 2 | AGRIPR 14 | SY SOREN | 21.5 | 55.8 | 18.8 | 24.7 |
| 12 | MT 1716 | MT SIDNEY | 21.4 | <u>58.2</u> | 17.1 | 26.3 |
| 17 | MT 1951 | MT1316/EGAN | 20.0 | 52.8 | <u>19.6</u> | 25.7 |
| 13 | MT 1809 | VIDA/M0 09/3-4 | 19.9 | 56.8 | 18.9 | 23.6 |
| 9 | PI 679964 | NS PRESSER CLP | 19.8 | 56.0 | 17.3 | 24.4 |
| 6 | PI 660981 | DUCLAIR | 17.7 | 55.3 | 18.6 | 25.3 |
| 11 | PI 633974 | CHOTEAU | 17.6 | <u>57.6</u> | 17.5 | 23.4 |
| MEAN | | | 22.8 | 56.4 | 18.2 | 25.1 |
| C.V. | | | 12.4 | 1.0 | 2.3 | 6.3 |
| PROBABILITY (ENTRY) | | | <0.001 | <0.001 | <0.001 | ns |
| LSD(0.05) | | | 4.7 | 1.0 | 0.7 | - |

bold : highest or earliest value within a column

bold : equal value to highest or earliest value within a column based LSD(0.05)

2021 OFF-STATION : SHERIDAN (DRY)

| ENTRY | ID | VARIETY / PEDIGREE | YIELD (BU/AC) | TEST WEIGHT (LB/BU) | PROTEIN (%) | PLANT HEIGHT (IN.) |
|---------------------|-----------|---------------------------------------|------------------|---------------------------|----------------|--------------------------|
| 13 | MT 1809 | VIDA/M0 09/3-4 | <u>33.0</u> | 64.1 | 15.2 | 17.7 |
| 14 | MT 1931 | MT1316/MT1319 | <u>30.8</u> | 63.8 | 15.6 | 18.1 |
| 5 | PI 642366 | VIDA | <u>29.6</u> | 64.2 | 15.1 | 19.8 |
| 15 | MT 1934 | VIDA/MT1319 | <u>29.2</u> | 63.6 | 15.7 | 18.9 |
| 4 | ND 695 | REEDER | <u>28.7</u> | 64.3 | 15.9 | 17.3 |
| 16 | MT 1938 | MT1316///MT1018//CHOTEAU/YELLOWSTONE- | 27.6 | 62.9 | 16.3 | 15.6 |
| 3 | AGRIPR141 | SY INGMAR | 27.4 | 65.3 | 16.4 | 18.4 |
| 10 | PI 690450 | DAGMAR | 26.4 | 63.7 | 16.4 | 17.3 |
| 9 | PI 679964 | NS PRESSER CLP | 26.0 | 63.7 | 15.7 | 20.7 |
| 12 | MT 1716 | MT SIDNEY | 25.8 | 64.3 | 16.1 | 18.1 |
| 17 | MT 1951 | MT1316/EGAN | 24.0 | 60.3 | 17.8 | 17.7 |
| 2 | AGRIPR 14 | SY SOREN | 23.4 | 64.6 | 17.1 | 17.4 |
| 8 | PI 676978 | LANNING | 23.3 | 63.1 | 16.7 | 17.8 |
| 7 | PI 671855 | EGAN | 22.4 | 61.9 | 18.7 | 17.7 |
| 6 | PI 660981 | DUCLAIR | 22.3 | 62.3 | 16.4 | 18.5 |
| 11 | PI 633974 | CHOTEAU | 21.3 | 63.5 | 17.0 | 17.8 |
| 1 | AGRIPR 10 | BRENNAN | 17.1 | <u>64.9</u> | 17.2 | 16.9 |
| MEAN | | | 25.8 | 63.6 | 16.4 | 18.0 |
| C.V. | | | 11.8 | 0.6 | 3.0 | 8.3 |
| PROBABILITY (ENTRY) | | | <0.001 | <0.001 | <0.001 | ns |
| LSD(0.05) | | | 5.0 | 0.7 | 0.8 | - |

bold : highest or earliest value within a column

bold : equal value to highest or earliest value within a column based LSD(0.05)

2021 ALUMINUM SCREENING NURSERY, Mike Pumphrey, Washington State University

| ID | PEDIGREE | RESULT |
|----------------|--------------------------------------|--------|
| SY INGMAR | - | S |
| SY ROCKFORD | - | T |
| WB GUNNISON | - | S |
| CORBIN | - | T |
| THATCHER | - | S |
| REEDER | - | T |
| MCNEAL | - | T |
| CHOTEAU | - | MT |
| VIDA | - | S |
| DUCLAIR | - | T |
| EGAN | - | T |
| LANNING | - | MT |
| NS PRESSER CLP | - | S |
| DAGMAR | - | S |
| WB 9879 CLP | CHOTEAU*3/CHOTEAU/IMI8134 | - |
| MT SIDNEY | MT1274/RB07 | - |
| MT 1809 | VIDA/M0 09/3-4 | - |
| MT 1855 | MT1053/MO8/3-4 | - |
| MT 1904 | VIDA///MT1018//CHOTEAU/YELLOWSTONE | - |
| MT 1927 | MT1203/MT1234 | - |
| MT 1931 | MT1316/MT1319 | - |
| MT 1934 | VIDA/MT1319 | - |
| MT 1938 | MT1316///MT1018//CHOTEAU/YELLOWSTONE | - |
| MT 1939 | MT1316///MT1018//CHOTEAU/YELLOWSTONE | - |
| MT 1951 | MT1316/EGAN | T |
| BZ917-252 | - | S |
| BZ917-277 | - | S |
| LCS BUSTER | - | T |
| MS RANCHERO | - | S |
| WB 9590 | - | T |
| WB 9719 | - | T |
| SY McCLOUD | - | S |

T = Tolerant

MT = Moderatly Tolerant

S = Susceptible

STRIPE RUST INFECTION TYPE (IT^a) AND SEVERITY (%) ON CULTIVARS AND LINES IN THE SPRING WHEAT MONTANA NURSERY (EXP217) AT MOUNT VERNON (LOC 05), WA WHEN RECORDED AT THE INDICATED DATES AND STAGES OF PLANT GROWTH UNDER NATURAL INFECTION IN 2021

Due to the extreme severe drought conditions in eastern Washington, the nursery did not have adequate stripe rust for reliable evaluation at the PCFS Farm (LOC 04) near Pullman, WA.

| ID | PEDIGREE | MOUNT VERNON (LOC 05) ^b | | | |
|-----------------------|--------------------------------------|------------------------------------|-----------|-----------|------------|
| | | 5/26 | | 6/22 | |
| | | Fks 3 ^c | | Fks 10.53 | |
| | | IT | % | IT | % |
| SY INGMAR | - | 9 | 80 | 8 | 80 |
| SY Rockford | - | 9 | 80 | 8 | 90 |
| WB GUNNISON | - | 9 | 80 | 8 | 70 |
| CORBIN | - | 8 | 60 | 8 | 70 |
| THATCHER | - | 8 | 60 | 9 | 90 |
| REEDER | - | 9 | 80 | 9 | 90 |
| MCNEAL | - | 9 | 80 | 9 | 100 |
| CHOTEAU | - | 5 | 40 | 5 | 40 |
| VIDA | - | 5 | 50 | 8 | 70 |
| DUCLAIR | - | 8 | 80 | 8 | 80 |
| EGAN | - | 8 | 60 | 5 | 40 |
| LANNING | - | 5 | 40 | 8 | 70 |
| NS PRESSER CLP | - | 9 | 80 | 9 | 100 |
| DAGMAR | - | 8 | 80 | 5 | 40 |
| WB 9879 CLP | CHOTEAU*3/CHOTEAU/IMI8134 | 5 | 40 | 8 | 50 |
| MT SIDNEY | MT1274/RB07 | 3 | 30 | 8 | 50 |
| MT 1809 | VIDA/M0 09/3-4 | 8 | 80 | 9 | 90 |
| MT 1855 | MT1053/MO8/3-4 | 5 | 60 | 5 | 30 |
| MT 1904 | VIDA//MT1018//CHOTEAU/YELLOWSTONE | 8 | 80 | 8 | 70 |
| MT 1927 | MT1203/MT1234 | 8 | 80 | 9 | 100 |
| AvS (S. check) | | 9 | 80 | 9 | 100 |
| MT 1931 | LANNING/MT1319 | 8 | 60 | 7 | 60 |
| MT 1934 | VIDA/MT1319 | 8 | 60 | 8 | 90 |
| MT 1938 | LANNING//MT1018//CHOTEAU/YELLOWSTONE | 8 | 80 | 8 | 90 |
| MT 1939 | LANNING//MT1018//CHOTEAU/YELLOWSTONE | 9 | 80 | 8 | 70 |
| MT 1951 | MT1316/EGAN | 8 | 70 | 9 | 100 |
| BZ917-252 | - | 8 | 80 | 3 | 30 |
| BZ917-277 | - | 8 | 80 | 8 | 80 |
| LCS BUSTER | - | 9 | 80 | 5 | 40 |
| MS RANCHERO | - | 3 | 30 | 3 | 20 |
| WB 9590 | - | 8 | 80 | 5 | 40 |
| WB 9719 | - | 8 | 80 | 5 | 40 |
| SY McCLOUD | - | 9 | 80 | 9 | 90 |
| AvS (S. check) | | 9 | 80 | 9 | 100 |
| Morex Barley | | 8 | 40 | 9 | 90 |

^a Infection Type (IT) was recorded based on the 0-9 scale with ITs 8 and 9 combined as 8 (the most susceptible reaction) in field data. Generally IT 0-3 are considered resistant, 4-6 intermediate, and 7-9 susceptible. Heterogenous reactions of an entry were indicated by two or more ITs separated by "," for most plants with the first IT and few plants with the second IT or connected with "-" for entries containing plants with continuous ITs.

^b Entries with a high IT in the first note, but a low IT in the second note at Mt. Vernon (LOC 05) may indicate that they have high-temperature, adult-plant (HTAP) resistance.

^c Feekes scale for growth stage.

SPRING WHEAT FUNGAL LEAF SPOT EVALUATION (2021) (Dr. Zhaohui Liu, NDSU, Fargo, ND)

| ID | Ptr ToxA | Pti2 (race 1) | DW5 (race 5) |
|-----------------------|-----------------|----------------------|---------------------|
| BRENNAN | 0 | 2.5 | 2 |
| SY SOREN | 0 | 2 | 1 |
| BZ917-252 | 1 | 2 | 1.5 |
| BZ917-277 | 0 | 1 | 1 |
| CHOTEAU | 0 | 2.5 | 3.5 |
| CORBIN | 1 | 4.5 | 3 |
| DAGMAR | 0 | 2 | 4 |
| DUCLAIR | 0 | 3.5 | 3.5 |
| EGAN | 0 | 1 | 1 |
| LANNING | 0 | 1.5 | 4 |
| LCS BUSTER | 0 | 1.5 | 1 |
| McNEAL | 0 | 1 | 1 |
| MS RANCHERO | 0 | 1.5 | 2 |
| NS PRESSER CLP | 1 | 2.5 | 1.5 |
| REEDER | 1 | 2 | 4.5 |
| SY INGMAR | 1 | 3.5 | 3.5 |
| SY ROCKFORD | 0 | 1.5 | 1 |
| VIDA | 0 | 2 | 1 |
| WB 9879 CLP | 0 | 4 | 2 |
| WB GUNNISON | 1 | 3.5 | 2.5 |
| MT SIDNEY | 0 | 2 | 4 |
| MT 1809 | 0 | 2 | 2 |
| MT 1855 | 1 | 4 | 3 |
| MT 1904 | 0 | 2 | 2 |
| MT 1927 | 0 | 4 | 3 |
| MT 1931 | 0 | 2.5 | 4 |
| MT 1934 | 0 | 2 | 4 |
| MT 1938 | 0 | 1 | 1 |
| MT 1939 | 0 | 3.5 | 3.5 |
| MT 1951 | 0 | 1 | 3.5 |

1,2=resistant, 3=moderately, 4,5=highly susceptible

PLANT VARIETY PROTECTION (PVP)

The developer of a new distinct variety may obtain protection (essentially a patent) for that variety if he/she chooses to do so, provided the variety meets the requirements of the Plant Variety Protection Act of 1970. This Act permits the owner or developer of a variety to prohibit others from selling, sexually multiplying, using for propagation for seed, or using to produce a hybrid, seed of his/her variety.

Two options, for plant variety protection, are available to the developer of the variety. Under the first option, the developer of the variety or his/her agent may sell either certified or uncertified seed of the variety. If the developer of the variety has reason to believe that anyone is infringing on his/her rights, he/she may resort to civil action. The other option ("certification option") for protecting a variety utilizes the provision of Title V of the Federal Seed Act. A variety protected in this manner may be sold by variety name only as a class of certified seed. It is the responsibility of the seller to inform the buyer if the variety is protected. Each container of seed sold should be labeled with a tag indicating the type of protection which the owner has. Under the first option, the label will state: "Unauthorized Propagation Prohibited - U.S. Protected Variety." If the owner of the variety has chosen the other option for variety protection, the label will state, "Unauthorized Propagation Prohibited - To be Sold by Variety Name Only as a Class of Certified Seed - U.S. Protected Variety."

PLEASE NOTE: Varieties protected under the PVP act, as amended in 1994, can no longer can be sold without permission of the variety owner (the farmer exemption has been excluded)

A complete listing of all protected varieties is available in the "Official Journal of the Plant Variety Protection Office" which may be obtained upon request from:

Plant Variety Protection Office Warehouse Division, AMS U.S. Dept. of Agriculture National
Agricultural Library Beltsville, MD 20705

Phone: (301) 504-5518

Internet: <http://www.ams.usda.gov/science/pvpo/pvpindex.htm>

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