

## 2022 WSU Variety Testing Hard Red Winter Wheat Trial Summary

Precipitation Zone <12"

| Variety Name<br><i>Hard White Italicized</i> | Bickleton    | Connell | Horse Heaven | Lind | Average   | Bickleton        | Connell | Horse Heaven | Lind | Average     | Bickleton   | Connell | Horse Heaven | Lind | Average     |
|----------------------------------------------|--------------|---------|--------------|------|-----------|------------------|---------|--------------|------|-------------|-------------|---------|--------------|------|-------------|
|                                              | Yield (Bu/A) |         |              |      |           | Test Wt (Lbs/Bu) |         |              |      |             | Protein (%) |         |              |      |             |
| <b>Released Varieties</b>                    |              |         |              |      |           |                  |         |              |      |             |             |         |              |      |             |
| <b>Scorpio</b>                               | 41           | 58      | 79           | 48   | <b>56</b> | 58.8             | 63.7    | 62.1         | 63.9 | 62.1        | 8.5         | 12.1    | 9.9          | 12.7 | 10.8        |
| <b>Keldin (900,000)</b>                      | 41           | 53      | 59           | 47   | 51        | 61.4             | 65.0    | 64.0         | 64.4 | 63.7        | 7.4         | 11.8    | 9.4          | 13.3 | 10.4        |
| <b>Keldin (1,050,000)</b>                    | 41           | 53      | 62           | 45   | 50        | 61.6             | 65.1    | 64.3         | 64.5 | 63.8        | 7.6         | 12.2    | 9.7          | 13.3 | 10.8        |
| <b>Keldin (750,000)</b>                      | 41           | 52      | 56           | 47   | 50        | 61.7             | 64.1    | 64.6         | 64.2 | 63.7        | 8.0         | 12.4    | 9.6          | 13.3 | 10.8        |
| <b>Whistler</b>                              | 31           | 53      | 65           | 46   | 49        | 61.3             | 65.3    | 64.7         | 65.0 | 64.1        | 7.7         | 11.8    | 9.4          | 12.5 | 10.5        |
| <b>Battle AX</b>                             | 31           | 48      | 60           | 48   | 49        | 60.3             | 65.0    | 63.2         | 65.4 | 63.5        | 7.8         | 12.2    | 9.1          | 12.6 | 10.4        |
| <b>LCS Jet</b>                               | 31           | 49      | 62           | 45   | 48        | 57.5             | 62.2    | 61.1         | 61.3 | 60.5        | 7.7         | 12.5    | 9.1          | 13.1 | 10.6        |
| <b>WB4303</b>                                | 34           | 50      | 56           | 47   | 47        | 59.9             | 64.2    | 63.5         | 64.3 | 63.0        | 8.3         | 12.3    | 9.4          | 12.7 | 10.7        |
| <b>Guardian</b>                              | 30           | 48      | 62           | 43   | 46        | 61.7             | 65.4    | 65.2         | 65.6 | 64.5        | 7.9         | 12.8    | 9.6          | 13.3 | 10.9        |
| <b>WB4510CLP</b>                             | 33           | 46      | 59           | 43   | 45        | 62.9             | 66.3    | 65.0         | 65.7 | <b>65.0</b> | 8.0         | 12.9    | 9.3          | 13.8 | 11.1        |
| <b>WB4394</b>                                | 30           | 52      | 51           | 42   | 44        | 61.2             | 64.2    | 64.1         | 64.6 | 63.5        | 7.5         | 12.2    | 9.6          | 13.3 | 10.7        |
| <b>Keldin (350,000)</b>                      | 29           | 47      | 55           | 43   | 44        | 61.7             | 64.6    | 63.9         | 64.1 | 63.5        | 8.2         | 12.8    | 10.4         | 13.7 | 11.2        |
| <b>Keldin (500,000)</b>                      | 32           | 47      | 53           | 44   | 44        | 61.3             | 65.0    | 64.5         | 64.2 | 63.8        | 7.7         | 12.8    | 10.1         | 14.0 | 11.2        |
| <b>LCS Helix AX</b>                          | 30           | 40      | 52           | 43   | 43        | 61.3             | 65.6    | 64.6         | 65.0 | 64.1        | 9.5         | 12.7    | 9.1          | 13.1 | 11.2        |
| <b>WB4311</b>                                | 30           | 51      | 47           | 39   | 42        | 61.0             | 64.9    | 64.0         | 64.0 | 63.5        | 7.5         | 13.2    | 10.9         | 14.3 | 11.5        |
| <b>Sequoia</b>                               | 28           | 46      | 53           | 38   | 42        | 60.3             | 63.6    | 62           | 63.7 | 62.4        | 7.3         | 11.9    | 9            | 13.2 | 10.4        |
| <b>Experimental Lines</b>                    |              |         |              |      |           |                  |         |              |      |             |             |         |              |      |             |
| <b>PN13001002-04</b>                         | 33           | 57      | 60           | 49   | 50        | 59.7             | 62.5    | 62.6         | 64.3 | 62.2        | 8.5         | 11.6    | 9.2          | 13.2 | 10.6        |
| <b>LWH19-5691</b>                            | 40           | 52      | 61           | 46   | 49        | 58.5             | 63.2    | 62.7         | 63.5 | 62.0        | 8.8         | 11.0    | 8.9          | 11.8 | 10.0        |
| <b>LWH19-1103</b>                            | 32           | 52      | 62           | 47   | 48        | 60.0             | 63.5    | 63.1         | 63.2 | 62.5        | 8.1         | 12.1    | 10.2         | 12.8 | 10.8        |
| <b>WA8338</b>                                | 39           | 54      | 57           | 41   | 47        | 58.5             | 62.1    | 62.0         | 62.1 | 61.2        | 7.7         | 12.0    | 9.6          | 13.0 | 10.7        |
| <b>LWH19-5663</b>                            | 34           | 52      | 58           | 41   | 46        | 58.9             | 62.4    | 61.7         | 62.2 | 61.3        | 7.7         | 12.0    | 9.7          | 12.8 | 10.5        |
| <b>LWH18-0122</b>                            | 30           | 47      | 55           | 42   | 43        | 58.4             | 62.8    | 61.7         | 62.6 | 61.3        | 8.3         | 12.6    | 10.1         | 13.5 | 11.0        |
| <b>WA8367</b>                                | 28           | 51      | 57           | 41   | 43        | 61.2             | 64.3    | 63.0         | 64.0 | 63.1        | 8.2         | 12.2    | 9.8          | 13.4 | 11.0        |
| <b>WA8310</b>                                | 29           | 55      | 54           | 41   | 43        | 60.2             | 64.7    | 63.0         | 64.3 | 63.0        | 7.7         | 11.8    | 9.8          | 13.6 | 10.8        |
| <b>LWH19-0192</b>                            | 26           | 47      | 56           | 44   | 43        | 58.8             | 63.1    | 61.8         | 62.8 | 61.6        | 7.5         | 12.3    | 9.2          | 12.7 | 10.3        |
| <b>OR2170199R</b>                            | 28           | 50      | 52           | 38   | 43        | 59.3             | 62.9    | 61.6         | 63.2 | 61.7        | 8.6         | 12.2    | 9.3          | 13.0 | 10.9        |
| <b>WA8318 CL+</b>                            | 23           | 48      | 57           | 39   | 42        | 60.1             | 63.6    | 62.4         | 63.0 | 62.3        | 7.6         | 11.3    | 8.8          | 12.3 | 9.9         |
| <b>YSC-1001</b>                              | 26           | 52      | 52           | 37   | 41        | 59.6             | 62.6    | 61.5         | 62.3 | 61.5        | 8.2         | 12.8    | 9.9          | 14.4 | 11.2        |
| <b>YSC-1002</b>                              | 29           | 40      | 49           | 41   | 38        | 60.4             | 63.6    | 63.5         | 63.7 | 62.9        | 9.0         | 13.7    | 10.2         | 13.6 | 11.6        |
| <b>GHR10</b>                                 | 24           | 38      | 43           | 33   | 34        | 61.9             | 64.0    | 64.1         | 63.7 | 63.4        | 8.9         | 15.2    | 10.8         | 15.0 | <b>12.5</b> |
| <b>C.V. %</b>                                | 13           | 8       | 8            | 7    | 11        | 0.6              | 1.0     | 0.8          | 0.5  | 0.8         | 5.1         | 3.1     | 4.9          | 3.7  | 4.5         |
| <b>LSD (0.05)</b>                            | 8            | 9       | 8            | 7    | 4         | 0.8              | 1.3     | 1.1          | 0.7  | 0.4         | 0.8         | 0.9     | 1.0          | 1.1  | 0.4         |
| <b>Average</b>                               | 32           | 50      | 57           | 43   | 46        | 60.3             | 64.0    | 63.2         | 63.8 | 62.8        | 8.0         | 12.4    | 9.7          | 13.2 | 10.8        |
| <b>Highest</b>                               | 41           | 58      | 79           | 49   | 56        | 62.9             | 66.3    | 65.2         | 65.7 | 65.0        | 9.5         | 15.2    | 10.9         | 15.0 | 12.5        |
| <b>Lowest</b>                                | 23           | 38      | 43           | 33   | 34        | 57.5             | 62.2    | 61.1         | 61.3 | 60.5        | 7.3         | 11.8    | 8.8          | 11.8 | 9.9         |

\*Some individual locations are analyzed using nearest neighbor analysis due to field variability. Multi-location average analyzed as an RCBD leading to different calculated averages.