

2013 WSU Variety Testing Hard Spring Wheat Trial, Horse Heaven

| Variety Name <i>*Hard White Italicized</i> | 5 YEAR AVERAGE (BU/A) | 3 YEAR AVERAGE (BU/A) | 2 YEAR AVERAGE (BU/A) | 2013 | | | | |
|---|-----------------------------|-----------------------------|-----------------------------|-----------------|---------------------|----------------|-------------|--------------|
| | | | | YIELD (BU/A) | TEST WT (LBS/BU) | PROTEIN (%) | PLANT HT | HEAD DATE |
| 11SB0096 | | | | 41 | 61.5 | 12.9 | 24 | 152 |
| Bullseye | 30 | 30 | 29 | 41 | 63.8 | 14.3 | 24 | 153 |
| <i>WA 8163</i> | | | 29 | 41 | 61.6 | 13.4 | 28 | 154 |
| <i>Otis</i> | 29 | 27 | 29 | 41 | 61.8 | 12.9 | 30 | 155 |
| Lassik | 30 | 31 | 28 | 41 | 62.5 | 13.9 | 24 | 153 |
| <i>IDO1202S</i> | | | | 41 | 61.9 | 13.0 | 28 | 153 |
| Scarlet | 31 | 31 | 28 | 41 | 61.4 | 13.5 | 28 | 152 |
| WA 8190 | | | | 40 | 59.9 | 13.1 | 26 | 157 |
| <i>WA 8192</i> | | | | 40 | 62.5 | 12.7 | 28 | 152 |
| LCS-Buck Pronto | 28 | 30 | 27 | 39 | 62.2 | 14.0 | 27 | 152 |
| <i>BR7030</i> | | 30 | 27 | 39 | 63.1 | 14.2 | 27 | 151 |
| SY605 CL | | | 27 | 39 | 63.3 | 14.6 | 26 | 151 |
| WA 8166 | | | 27 | 38 | 62.5 | 13.9 | 27 | 152 |
| <i>Dayn (WA 8123)</i> | | 29 | 24 | 37 | 62.2 | 13.7 | 26 | 152 |
| Jefferson | 28 | 28 | 26 | 36 | 62.4 | 13.8 | 25 | 151 |
| WB9879CLP | | | | 36 | 61.6 | 15.2 | 23 | 157 |
| Hollis | 29 | 30 | 27 | 35 | 61.9 | 14.6 | 32 | 151 |
| IDO862E | | | | 35 | 62.4 | 14.5 | 25 | 151 |
| IDO862T | | | | 35 | 62.0 | 13.9 | 25 | 151 |
| <i>COI565W</i> | | | | 35 | 61.4 | 14.5 | 26 | 153 |
| <i>Patwin 515</i> | | 28 | 24 | 35 | 60.5 | 13.9 | 20 | 153 |
| <i>08SB0658-B</i> | | | | 35 | 61.8 | 13.6 | 24 | 152 |
| <i>IDO694C</i> | | | | 35 | 63.1 | 14.0 | 24 | 151 |
| WA 8191 | | | | 34 | 60.8 | 13.5 | 26 | 153 |
| Glee (WA 8074) | 28 | 28 | 24 | 34 | 62.7 | 14.5 | 27 | 151 |
| <i>WB Hartline</i> | | | 24 | 34 | 61.0 | 15.1 | 27 | 152 |
| Glee-0W | | | | 33 | 62.4 | 14.7 | 26 | 150 |
| WA 8165 | | | 25 | 33 | 61.9 | 15.1 | 32 | 152 |
| <i>AUBR31059W (Roydon)</i> | | | | 33 | 63.1 | 14.9 | 26 | 150 |
| LNR10-0551 | | | | 33 | 62.6 | 14.4 | 24 | 152 |
| Glee-G2 | | | | 32 | 62.9 | 14.2 | 27 | 150 |
| Tara 2002 | 25 | 26 | 22 | 32 | 61.3 | 15.1 | 27 | 150 |
| WA 8164 | | | 23 | 32 | 62.3 | 14.6 | 27 | 151 |
| UI-Winchester | | | | 32 | 63.1 | 15.0 | 23 | 151 |
| Kelse | 27 | 26 | 22 | 31 | 61.5 | 15.5 | 29 | 151 |
| <i>CHBR1481W (Rexon)</i> | | | | 27 | 62.3 | 14.9 | 30 | 150 |
| C.V. % | 8 | 9 | 9 | 8 | 0.7 | 3.0 | 5 | 1 |
| LSD (.10) | 1 | 2 | 2 | 3 | 0.5 | 0.5 | 1 | 1 |
| Average | 29 | 29 | 26 | 36 | 62.1 | 14.2 | 26 | 152 |
| Highest | 31 | 34 | 29 | 41 | 63.8 | 15.5 | 32 | 157 |
| Lowest | 25 | 26 | 22 | 27 | 59.9 | 12.7 | 20 | 150 |

Horse Heaven Hard Spring Wheat – Preliminary Data

1. Grain yield in the 2013 Horse Heaven hard spring wheat trial averaged 36 bushels/acre, 7 bushels/acre higher than the 5-year average. The Horse Heaven nursery was located about ten miles south of Benton City, WA (J. Moon, cooperator).
2. This nursery was seeded on 14 March, 2013 following fallow. Seed was placed at a 60#/acre seeding rate using cross-slot no-till plot drill set on 10-inch spacing. Base fertilizer was 4#N/acre fall applied at planting and a spring soil test analysis showed 109 #N/acre available to meet the hard protein target at projected yield levels. Spring seeding conditions and establishment were good.
3. Yields ranged from 27 bu/acre to 41 bu/acre. Yield values within the LSD range of the highest yield are shown in bold and 13 of the 36 entries are in this group. 'Bullseye' was the highest yielding in 2013, and 'Scarlet' and 'UI-Winchester' were the highest yielding over 5 years at this location. No fungicide was applied because there was no stripe rust found.
4. Test weights were very good and averaged 62.1 lbs/bu with a range from 59.9 to 63.8 lbs/bu. Grain protein averaged 14.2% with a range of 12.7 to 15.5%. The average plant height was 26 inches with no lodging.