

2012 WSU Variety Testing Hard Spring Wheat Trial, Mayview

| Variety Name <i>*Hard White Italicized</i> | 5 YEAR AVERAGE (BU/A) | 3 YEAR AVERAGE (BU/A) | 2 YEAR AVERAGE (BU/A) | 2012 | | |
|---|-----------------------------|-----------------------------|-----------------------------|-----------------|---------------------|----------------|
| | | | | YIELD (BU/A) | TEST WT (LBS/BU) | PROTEIN (%) |
| Glee (WA 8074) | | 45 | 50 | 46 | 61.4 | 12.1 |
| <i>Otis</i> | | 39 | 46 | 46 | 62.3 | 11.6 |
| <i>WB Hartline</i> | | | | 45 | 61.1 | 11.4 |
| WA 8166 | | | | 43 | 62.3 | 12.4 |
| LCS-Powerplay | | | 45 | 41 | 63.1 | 12.4 |
| Scarlet | 47 | 41 | 45 | 39 | 61.0 | 12.0 |
| Kelse | 45 | 42 | 45 | 39 | 62.4 | 12.7 |
| <i>WA 8163</i> | | | | 39 | 62.5 | 12.4 |
| Jefferson | 45 | 40 | 43 | 38 | 60.7 | 12.6 |
| Hollis | 43 | 39 | 42 | 38 | 60.8 | 12.8 |
| WB-Fuzion | 43 | 41 | 42 | 37 | 60.4 | 13.1 |
| WA 8165 | | | | 37 | 62.8 | 13.3 |
| SY605 CL | | | | 37 | 62.4 | 12.5 |
| LCS-Buck Pronto | 45 | 41 | 45 | 37 | 62.2 | 12.6 |
| Bullseye | 46 | 42 | 41 | 36 | 63.3 | 12.2 |
| Tara 2002 | 45 | 41 | 43 | 36 | 61.5 | 12.3 |
| <i>IDO694</i> | | | | 36 | 63.2 | 12.5 |
| Lassik | | 43 | 45 | 35 | 61.5 | 12.8 |
| V272 | | | | 34 | 61.7 | 13.4 |
| WA 8167 | | | | 34 | 60.7 | 11.9 |
| <i>WA 8168</i> | | | | 34 | 62.1 | 12.9 |
| WA 8164 | | | | 34 | 61.5 | 12.9 |
| Espresso | | | | 33 | 61.5 | 13.7 |
| LCS-ALbany | | | | 33 | 61.6 | 12.1 |
| <i>Dayn (WA 8123)</i> | | 38 | 41 | 32 | 62.0 | 12.2 |
| <i>BR7030</i> | | 43 | 43 | 31 | 63.0 | 11.8 |
| <i>Patwin 515</i> | | | 42 | 31 | 60.7 | 13.0 |
| <i>Clear White 515</i> | | | 40 | 29 | 60.1 | 12.4 |
| Jedd | 42 | | | 25 | 61.7 | 12.7 |
| Hank | 41 | 35 | 33 | 24 | 59.0 | 13.0 |
| C.V. % | 8 | 9 | 8 | 9 | 0.5 | 2.6 |
| LSD (.10) | 2 | 2 | 2 | 3 | 0.3 | 0.3 |
| Average | 44 | 41 | 43 | 36 | 61.7 | 12.5 |
| Highest | 47 | 45 | 50 | 46 | 63.3 | 13.7 |
| Lowest | 41 | 35 | 33 | 24 | 59.0 | 11.4 |

Mayview Hard Spring Wheat – Preliminary Data

1. This summary includes duplicate hard spring wheat trials except one was sprayed with fungicide and the other was not sprayed. Grain yield in these 2012 Mayview hard spring wheat trials averaged 36 bushels/acre, 8 bushels/acre lower than the 5-year average in the fungicide sprayed trial, and the non-sprayed trial averaged 39 bushels/acre. The Mayview trial was located about 5 miles south of Lower Granite Dam on the Snake River, or 12 miles northeast of Pomeroy, WA (R. & R. Koller, cooperators).
2. The trials were seeded on 25 April, 2012 following winter wheat. Seed was placed at an 80#/acre seeding rate using a double-disk plot drill set on 6-inch spacing. Base fertilizer was 70#N/acre applied pre-plant and a soil test showed 81#N/acre available, no additional fertilizer was applied to make protein in these hard trials based on yield projection. Spring seeding conditions were good and establishment was uniform. Tilt® fungicide at 4 oz/acre was applied 1 June and 11 July to the sprayed trial and stripe rust levels were low.
3. In the sprayed trial, yields ranged from 24 to 46 bu/acre, while in the non-sprayed trial, yields ranged from 27 to 52 bu/acre. Yield values within the LSD range of the highest yield are shown in bold and 4 of the 30 entries are in this group in the sprayed and 2 of the 30 are in the top group in the non-sprayed. The newly released hard red 'Glee', previously designated as WA8074, was the highest yielding named variety entry in the sprayed trial and 'Scarlet' was the highest yielding over 5 years of results at this site. The hard white 'WB Hartline' was the highest yielding named variety in the non-sprayed trial. Yields in both trials and the difference in yield and percentage difference between sprayed and non-sprayed for each entry are in a separate comparison table. Yield advantage in the sprayed trial averaged -3 bu/acre and ranged from -9 to 4 bu/acre.
4. Test weights averaged 61.7 lbs/bu and ranged from 59.0 to 63.3 lbs/bu in the sprayed trial, and averaged 61.7 lbs/bu and ranged from 59.0 to 63.4 lbs/bu in the non-sprayed trial. Grain protein averaged 12.5% with a range of 11.4 to 13.7% in the sprayed trial, and protein averaged 12.4% with a range of 11.0 to 14.1% in the non-sprayed trail. There was no lodging in either trial.