

2009 WSU EXTENSION HARD WINTER WHEAT NURSERY AT REARDAN, WA.

| Variety Name <i>*HDWH Italicized</i> | 5 YEAR AVERAGE (BU/A) | 3 YEAR AVERAGE (BU/A) | 2 YEAR AVERAGE (BU/A) | 2009 | | | | | |
|-----------------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------|---------------------|----------------|----------------|-------------|--------------|
| | | | | YIELD (BU/A) | TEST WT (LBS/BU) | PROTEIN (%) | LODGING (%) | PLANT HT | HEAD DATE |
| <i>MDM</i> | -- | 89.1 | 88.4 | 91.6 | 61.4 | 11.1 | 3.3 | 32.7 | 164.5 |
| WA008098 | -- | | | 90.0 | 60.7 | 12.2 | 26.7 | 37.3 | 165.5 |
| WA008068 | -- | | 84.3 | 87.4 | 61.3 | 12.3 | 3.3 | 37.0 | 163.5 |
| BOUNDARY | -- | 89.3 | 87.9 | 86.0 | 60.6 | 12.7 | 0.0 | 28.3 | 162.0 |
| <i>WA008097</i> | -- | | | 85.8 | 60.6 | 11.7 | 10.0 | 35.0 | 164.5 |
| WHETSTONE | -- | 75.7 | 73.9 | 82.3 | 62.4 | 12.8 | 0.0 | 30.7 | 157.0 |
| ACS 52025 | -- | 83.5 | 80.1 | 82.0 | 61.1 | 12.1 | 0.0 | 30.3 | 159.0 |
| <i>WA008070</i> | -- | | 75.7 | 80.1 | 61.7 | 11.2 | 6.7 | 38.0 | 165.5 |
| BAUERMEISTER | -- | 80.7 | 77.1 | 79.9 | 61.4 | 11.2 | 10.0 | 32.3 | 164.0 |
| DECLO | -- | 77.3 | 82.9 | 79.5 | 62.1 | 12.8 | 0.0 | 27.3 | 160.5 |
| ML9W05-2506 | -- | | 75.1 | 79.4 | 62.0 | 12.2 | 0.0 | 29.7 | 158.0 |
| NORWEST 553 | -- | 78.0 | 78.4 | 79.2 | 61.8 | 12.7 | 0.0 | 26.7 | 161.0 |
| EDDY | -- | 75.3 | 73.8 | 78.3 | 61.2 | 11.8 | 0.0 | 28.7 | 159.5 |
| <i>WA008096</i> | -- | | | 77.8 | 60.4 | 12.1 | 0.0 | 32.3 | 164.0 |
| WA008095 | -- | | | 77.6 | 61.4 | 11.5 | 6.7 | 37.3 | 163.5 |
| <i>ML9W04-2543W</i> | -- | | | 77.2 | 61.3 | 11.7 | 0.0 | 33.3 | 159.0 |
| PEREGRINE | -- | | 77.3 | 75.7 | 61.6 | 10.8 | 13.3 | 36.7 | 161.0 |
| ESPERIA | -- | | | 75.4 | 60.5 | 12.0 | 0.0 | 25.7 | 156.5 |
| <i>IDO658</i> | -- | | | 75.2 | 62.0 | 11.2 | 3.3 | 34.3 | 160.5 |
| HATTON | -- | 75.1 | 71.6 | 75.0 | 62.8 | 12.4 | 3.3 | 36.7 | 163.0 |
| ELTAN | -- | 79.4 | 75.4 | 74.6 | 60.6 | 11.2 | 0.0 | 31.7 | 164.5 |
| WA008022 | -- | 74.6 | 71.0 | 74.2 | 59.8 | 10.6 | 0.0 | 32.3 | 162.0 |
| ACCIPITER | -- | | | 72.6 | 61.7 | 11.8 | 0.0 | 28.0 | 163.0 |
| FARNUM | -- | 76.2 | 77.0 | 72.3 | 59.7 | 12.2 | 6.7 | 37.0 | 167.0 |
| FINLEY | -- | 73.3 | 72.1 | 71.7 | 62.1 | 11.7 | 36.7 | 37.3 | 161.5 |
| <i>IDO651</i> | -- | | | 71.0 | 60.8 | 12.1 | 10.0 | 40.0 | 161.5 |
| AGRIPRO PALADIN | -- | 71.0 | 70.9 | 70.5 | 62.3 | 12.6 | 0.0 | 28.7 | 160.5 |
| NORRIS | -- | | | 68.7 | 61.9 | 11.8 | 0.0 | 32.7 | 157.5 |
| WA008061 | -- | | 68.3 | 68.4 | 60.7 | 12.9 | 36.7 | 38.7 | 163.5 |
| BC002-2 | -- | | 73.6 | 65.7 | 61.6 | 13.6 | 0.0 | 26.3 | 158.0 |
| IDO683 | -- | | | 64.8 | 61.6 | 13.5 | 36.7 | 33.0 | 160.0 |
| NUDAKOTA | -- | | 65.1 | 63.7 | 61.2 | 11.3 | 0.0 | 26.0 | 156.0 |
| <i>UI DARWIN</i> | -- | 63.8 | 59.1 | 54.2 | 62.2 | 11.9 | 16.7 | 33.7 | 159.0 |
| <i>MIETI</i> | -- | | | 53.2 | 59.8 | 13.3 | 0.0 | 20.7 | 157.0 |
| <i>MOL</i> | -- | | | 52.3 | 60.6 | 14.3 | 0.0 | 24.7 | 157.5 |
| <i>PALOMINO</i> | -- | 61.9 | 55.8 | 52.1 | 61.1 | 13.4 | 0.0 | 25.7 | 157.5 |
| C.V. % | -- | 10.2 | 12.1 | 11.5 | 0.5 | 4.5 | 165.8 | 6.0 | 0.6 |
| LSD '@ .10' | -- | 5.5 | 8.0 | 11.7 | 0.4 | 0.7 | 14.4 | 2.6 | 1.3 |
| Average | -- | 76.5 | 74.6 | 74.0 | 61.3 | 12.1 | 6.4 | 31.9 | 161.1 |
| Highest | -- | 89.3 | 88.4 | 91.6 | 62.8 | 14.3 | 36.7 | 40.0 | 167.0 |
| Lowest | -- | 61.9 | 55.8 | 52.1 | 59.7 | 10.6 | 0.0 | 20.7 | 156.0 |

Reardan Hard Winter Wheat – Preliminary Data

1. Grain yield in the Reardan Hard winter wheat trial averaged 74 bushels/acre, 2.5 bushels/acre less than the 5-year average yield at this location. The Reardan nursery was located about 6 miles west of Reardan, WA (Hal Johnson, cooperator).
2. This nursery was seeded on 25 September, 2008 following summer fallow. Seed was placed at an 85#/acre seeding rate using a double disc plot drill set on 6-inch spacing. Base fertilizer was 85#N, 7#P, and 5#S applied in the fall. Spring soil test showed adequate fertilizer available for hard wheat and no additional spring fertilizer was applied. Seeding conditions produced good stands that overwintered well. Alpha Lattice experimental designs improved variation allocation during statistical analysis and the CV by 28% compared to previously used designs.
3. Yields ranged from 52 bu/ac to 92 bu/ac. Yield values within the LSD range of the highest yield are shown in bold and included 8 cultivars. Hard white variety names are designated by italic print. There was more variability than desired at this trial that contributed to a 11.5 CV value.
4. Test weights were good with an average of 61.3 lb/bu. Grain protein averaged 12.1% with a range of 10.6 to 14.3%. The average plant height was 32 inches.