

2010 WSU EXTENSION HARD WINTER WHEAT NURSERY AT LAMONT, WA.

| Variety Name <i>*HDWH Italicized</i> | 5 YEAR | 3 YEAR | 2 YEAR | 2010 | | | | | |
|---|-------------------|-------------------|-------------------|-----------------|---------------------|----------------|----------------|-------------|--------------|
| | AVERAGE (BU/A) | AVERAGE (BU/A) | AVERAGE (BU/A) | YIELD (BU/A) | TEST WT (LBS/BU) | PROTEIN (%) | LODGING (%) | PLANT HT | HEAD DATE |
| WA008120 | -- | | | 127 | 58.7 | 11.0 | 20 | 46 | 158 |
| BOUNDARY | -- | 100 | 107 | 112 | 59.2 | 12.0 | 25 | 43 | 152 |
| <i>UT SILVER</i> | -- | | 93 | 108 | 61.3 | 10.8 | 35 | 44 | 155 |
| WA008119 | -- | | | 108 | 57.3 | 11.6 | 27 | 44 | 158 |
| PEREGRINE | -- | 88 | 94 | 100 | 60.2 | 11.6 | 73 | 50 | 151 |
| WA008070 | -- | 86 | 91 | 98 | 60.7 | 11.4 | 18 | 51 | 161 |
| WA008095 | -- | | 92 | 96 | 60.6 | 12.9 | 53 | 51 | 154 |
| <i>WA008096</i> | -- | | 87 | 96 | 56.4 | 11.9 | 72 | 45 | 159 |
| <i>UICF GRACE</i> | -- | | 78 | 91 | 59.8 | 12.3 | 53 | 54 | 152 |
| <i>WA008097</i> | -- | | 79 | 91 | 56.0 | 11.2 | 50 | 43 | 158 |
| WA008118 | -- | | | 90 | 60.6 | 13.9 | 43 | 46 | 151 |
| <i>MDM</i> | -- | 93 | 93 | 86 | 57.7 | 10.3 | 77 | 43 | 157 |
| ACCIPITER | -- | | 85 | 84 | 60.4 | 11.3 | 0 | 45 | 153 |
| BAUERMEISTER | -- | 83 | 82 | 83 | 56.1 | 12.2 | 96 | 44 | 157 |
| FINLEY | -- | 85 | 80 | 82 | 61.8 | 12.9 | 95 | 51 | 152 |
| WA008121 | -- | | | 82 | 61.2 | 13.6 | 37 | 48 | 151 |
| WHETSTONE | -- | 80 | 84 | 81 | 60.7 | 13.3 | 0 | 41 | 151 |
| ELTAN(SWW check) | -- | 81 | 77 | 78 | 55.9 | 11.5 | 73 | 42 | 158 |
| <i>OR2080229H</i> | -- | | | 78 | 61.2 | 12.0 | 0 | 42 | 158 |
| FARNUM | -- | 80 | 78 | 77 | 58.0 | 11.8 | 95 | 49 | 160 |
| BAU-RT1 | -- | | | 72 | 55.5 | 12.8 | 72 | 42 | 158 |
| EDDY | -- | 79 | 81 | 70 | 60.3 | 12.6 | 0 | 42 | 153 |
| WB-RIMROCK | -- | 78 | 76 | 70 | 59.3 | 11.5 | 3 | 42 | 152 |
| ESPERIA | -- | | 81 | 69 | 60.4 | 14.5 | 0 | 34 | 152 |
| <i>OR2080156H</i> | -- | | | 67 | 59.4 | 13.2 | 0 | 43 | 157 |
| AGRIPRO PALADIN | -- | 71 | 69 | 63 | 60.8 | 12.6 | 0 | 39 | 155 |
| NORWEST 553 | -- | 75 | 73 | 62 | 60.4 | 13.6 | 0 | 34 | 156 |
| IDO683 | -- | | 61 | 59 | 61.6 | 12.5 | 78 | 45 | 152 |
| HATTON | -- | 61 | 55 | 33 | 55.2 | 12.6 | 0 | 49 | 156 |
| DECLO | -- | 56 | 51 | 20 | 55.7 | 13.4 | 0 | 34 | 158 |
| C.V. % | -- | 13 | 15 | 18 | 1.8 | 4.7 | 60 | 5 | 1 |
| LSD '@ .10' | -- | 8 | 12 | 20 | 1.5 | 0.8 | 30 | 3 | 1 |
| Average | -- | 80 | 80 | 81 | 59.1 | 12.3 | 37 | 44 | 155 |
| Highest | -- | 100 | 107 | 127 | 61.8 | 14.5 | 96 | 54 | 161 |
| Lowest | -- | 56 | 51 | 20 | 55.2 | 10.3 | 0 | 34 | 151 |

Lamont Hard Winter Wheat – Preliminary Data

1. Grain yield in the Lamont hard winter wheat trial averaged 81 bushels/acre, 1 bushel/acre higher than the 5-year average for this site. The Lamont nursery was located about five miles southeast of Lamont, WA (Gil White, Cooperator).
2. This nursery was seeded on 11 September, 2009 following summer fallow. Seed was placed at an 85#/acre seeding rate using a hoe opener plot drill set on 9-inch spacing. Base fertilizer was 70#N and a spring soil test analysis showed an additional 88#N available. Based on average yield levels, an additional 100#N was applied to the hard trail to facilitate protein levels. Fall seeding conditions were okay, but rain before emergence caused some crusting and emergence variability. The seed was planted about 5 inches deep and cultivars that do not emerge well under deep planted dryland conditions, did not establish well at this location. Some stripe rust developed in this trial, but stripe rust impact was not large except for susceptible cultivars.
3. Yields ranged from 20 bu/ac to 127 bu/ac with the lower yielding varieties not establishing well in this trial and/or having high levels of stripe rust. All yield values within the 10% LSD range of the highest yield are shown in bold, and 2 of the 30 entries in the trial are in this top group. The lattice RCBD experimental design did not improve variation allocation during statistical analysis and the CV for this trial was 17.5%. The high variation from establishment contributed to the high CV and LSD values, and the results should be evaluated accordingly.
4. Test weights were okay with an average of 59.1 lb/bu and ranged from 55.2 to 61.8 lb/bu. Lodging ranged from 0 to 96%.
5. Grain protein was good and averaged 12.3% with a range of 10.3 to 14.5%. Plant height averaged 44 inches.