

2007 WSU EXTENSION HARD WINTER WHEAT NURSERY AT DAYTON, WA.

| Variety Name *HDWH Italized | 5 YEAR AVERAGE (BU/A) | 3 YEAR AVERAGE (BU/A) | 2 YEAR AVERAGE (BU/A) | 2007 | | | | | |
|--------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------|---------------------|----------------|----------------|-------------|--------------|
| | | | | YIELD (BU/A) | TEST WT (LBS/BU) | PROTEIN (%) | LODGING (%) | PLANT HT | HEAD DATE |
| ACS 52025 | -- | -- | -- | 153.0 | 62.5 | 11.7 | 0.0 | 35.5 | 146.8 |
| WA008023 | -- | -- | -- | 134.6 | 60.7 | 12.0 | 0.0 | 37.5 | 151.6 |
| WA007976 | -- | -- | -- | 130.5 | 62.5 | 11.5 | 0.0 | 40.3 | 152.0 |
| ELTAN | -- | -- | -- | 127.8 | 62.0 | 11.0 | 0.0 | 38.5 | 154.3 |
| BAUERMEISTER | -- | -- | -- | 124.3 | 62.3 | 11.6 | 0.0 | 37.3 | 152.4 |
| <i>MDM</i> | -- | -- | -- | 123.1 | 62.7 | 11.0 | 0.0 | 37.5 | 153.9 |
| <i>OR2052046H</i> | -- | -- | -- | 121.5 | 63.3 | 10.6 | 0.0 | 32.0 | 150.9 |
| ACS 52035 | -- | -- | -- | 119.3 | 62.6 | 12.8 | 0.0 | 44.5 | 150.9 |
| TX97F4-33-1B | -- | -- | -- | 118.7 | 63.8 | 11.2 | 0.0 | 33.5 | 142.6 |
| WA008022 | -- | -- | -- | 117.6 | 61.1 | 11.8 | 68.8 | 41.5 | 150.9 |
| W98-344 | -- | -- | -- | 117.2 | 62.8 | 12.3 | 0.0 | 34.5 | 144.1 |
| BOUNDARY | -- | -- | -- | 117.1 | 61.5 | 12.4 | 0.0 | 33.0 | 149.4 |
| BZ9W02-2032 | -- | -- | -- | 115.9 | 62.6 | 12.2 | 0.0 | 34.5 | 142.3 |
| WA008024 | -- | -- | -- | 115.5 | 61.9 | 11.3 | 0.0 | 38.5 | 152.0 |
| EDDY | -- | -- | -- | 113.3 | 62.6 | 12.1 | 0.0 | 32.5 | 146.4 |
| WA008003 | -- | -- | -- | 111.2 | 62.7 | 12.1 | 0.0 | 40.0 | 151.6 |
| ORN00B553 | -- | -- | -- | 110.8 | 63.1 | 12.1 | 0.0 | 29.8 | 148.3 |
| HATTON | -- | -- | -- | 108.8 | 63.9 | 11.7 | 11.3 | 39.5 | 151.3 |
| AGRIPRO PALADIN | -- | -- | -- | 108.0 | 63.0 | 12.5 | 0.0 | 33.3 | 147.9 |
| IDO621 | -- | -- | -- | 104.9 | 61.7 | 12.2 | 0.0 | 31.0 | 148.6 |
| DECLO | -- | -- | -- | 103.2 | 62.9 | 12.5 | 0.0 | 29.8 | 149.0 |
| <i>PALOMINO</i> | -- | -- | -- | 99.7 | 62.0 | 12.5 | 0.0 | 31.5 | 143.4 |
| FINLEY | -- | -- | -- | 97.1 | 62.4 | 12.4 | 53.5 | 42.3 | 150.1 |
| WA007975 | -- | -- | -- | 96.7 | 60.3 | 12.6 | 58.8 | 39.3 | 152.4 |
| JUNIPER | -- | -- | -- | 93.6 | 61.9 | 13.4 | 25.0 | 43.3 | 149.0 |
| <i>WA008025</i> | -- | -- | -- | 92.3 | 62.0 | 11.8 | 0.0 | 33.3 | 153.5 |
| FINEWAY | -- | -- | -- | 89.5 | 62.2 | 12.6 | 22.5 | 42.8 | 150.5 |
| <i>WA008019</i> | -- | -- | -- | 84.9 | 62.4 | 12.4 | 59.5 | 37.8 | 149.4 |
| <i>UI DARWIN</i> | -- | -- | -- | 80.1 | 62.7 | 12.8 | 0.0 | 38.0 | 149.4 |
| C.V. % | -- | -- | -- | 11.0 | 0.8 | 2.9 | -- | -- | -- |
| LSD '@ .10' | -- | -- | -- | 14.4 | 0.6 | 0.4 | -- | -- | -- |
| Average | -- | -- | -- | 111.4 | 62.4 | 12.0 | 10.3 | 36.7 | 149.5 |
| Highest | -- | -- | -- | 153.0 | 63.9 | 13.4 | 68.8 | 44.5 | 154.3 |
| Lowest | -- | -- | -- | 80.1 | 60.3 | 10.6 | 0.0 | 29.8 | 142.3 |

DAYTON HARD WINTER WHEAT – 2007 WSU VARIETY TESTING DATA

1. 2007 Hard Winter Wheat **YIELD DATA** from the WSU Variety Testing nursery at the Dayton location averaged 111.4 bu/ac. This is the first year that a hard winter nursery was established at the Dayton location. *NOTE: The Dayton nursery was located off Kellogg Rd (Bickelhaupt Rd) about 12 miles northwest of Dayton, WA (J. Penner farm).*
2. This nursery was **seeded** on 2 October 2006 on fallow ground using a plot drill with double disc (6-inch spacing) into fair soil moisture that was about 2-inches below the surface at a seeding rate of 85#/acre. The base fertilizer rate was 130#N, 20P, 20#S and 10#Cl). An additional 110#N and 16.5#S was applied in March 2007 to this hard winter nursery.
3. In general, the cold snap at the end of October 2006 and the 10-day cold-snap in mid-January (11-21 Jan 2007) had minimal winter injury impact. In fact, this nursery had fair emergence and was fairly small going into the winter; however, the stand had good recovery based on March 2007 field evaluations.
4. **Average yield** range was 80.1 bu/ac to 153.0 bu/ac and the highest yielding varieties actually had higher average yields than the highest yielding varieties in the soft white winter nursery. There was a fairly high LSD @0.10 at 14.4 bu/ac that resulted in many of the varieties/lines being statistically comparable at this location.
5. Wheat quality in terms of **test weight** was very high at this location with an average test weight value of 62.4 lbs/bu that was probably a function of late May 2007 heading dates followed by the 2-week period of cool weather in June that allowed this nursery to avoid damage from the late June heat and moisture stress during kernel fill.
6. **Percent grain protein** had a range of 10.6% to 13.4% with an average of 12.0%. Over 90% of the entries equaled or exceeded the 11.5% minimum protein level for the HRW market class.