

2006 WSU EXTENSION HARD WINTER WHEAT NURSERY AT RITZVILLE, WA.

| Variety Name | 5 YEAR AVERAGE (BU/A) | 3 YEAR AVERAGE (BU/A) | 2 YEAR AVERAGE (BU/A) | 2006 | | | | | |
|-----------------|-----------------------------|-----------------------------|-----------------------------|-----------------|---------------------|----------------|----------------|-------------|--------------|
| | | | | YIELD (BU/A) | TEST WT (LBS/BU) | PROTEIN (%) | LODGING (%) | PLANT HT | HEAD DATE |
| ELTAN | -- | 60.2 | 58.0 | 65.6 | 61.0 | 11.6 | 0 | 33.5 | 155.6 |
| WA007977 | -- | | 67.8 | 65.0 | 59.0 | 11.4 | 0 | 33.0 | 156.0 |
| MDM | -- | 59.4 | 59.5 | 64.1 | 61.2 | 11.8 | 0 | 34.0 | 155.6 |
| BOUNDARY | -- | 59.9 | 61.2 | 62.5 | 61.3 | 11.6 | 0 | 29.3 | 152.6 |
| BUCHANAN | -- | 58.6 | 55.2 | 60.5 | 60.7 | 11.2 | 0 | 36.5 | 156.0 |
| WA007976 | -- | | 67.3 | 60.1 | 60.8 | 11.2 | 0 | 31.3 | 153.0 |
| IDO621 | -- | | | 60.0 | 61.9 | 11.9 | 0 | 28.0 | 149.6 |
| ELTAN*2/MACON | -- | | | 58.8 | 63.1 | 11.7 | 0 | 38.8 | 146.6 |
| BAUERMEISTER | -- | 61.5 | 61.8 | 56.7 | 60.6 | 11.8 | 0 | 33.3 | 155.6 |
| IDO641 | -- | | | 56.2 | 63.6 | 12.0 | 0 | 30.0 | 148.9 |
| WA007975 | -- | | 55.7 | 55.9 | 59.8 | 12.4 | 0 | 37.3 | 156.0 |
| WA008003 | -- | | | 55.6 | 61.6 | 11.7 | 0 | 34.0 | 154.1 |
| HATTON | -- | 50.6 | 46.2 | 54.7 | 63.4 | 10.8 | 0 | 35.3 | 153.0 |
| ORN98-0995 | -- | | | 54.2 | 57.8 | 11.8 | 0 | 27.0 | 152.6 |
| UI DARWIN | -- | | | 53.9 | 62.7 | 12.1 | 0 | 37.3 | 151.9 |
| JUNIPER | -- | | | 52.5 | 61.7 | 13.0 | 0 | 40.3 | 151.9 |
| WA008001 | -- | | | 52.0 | 59.1 | 11.7 | 0 | 34.3 | 154.5 |
| FINLEY | -- | 55.3 | | 51.6 | 62.3 | 12.4 | 0 | 37.3 | 149.3 |
| ORN00B553 | -- | | | 51.3 | 61.2 | 12.8 | 0 | 26.8 | 151.1 |
| WA008002 | -- | | | 50.6 | 62.4 | 12.0 | 0 | 32.0 | 153.8 |
| EDDY | -- | 55.2 | 52.1 | 49.8 | 63.2 | 12.4 | 0 | 28.5 | 147.8 |
| WESTON | -- | 47.0 | 44.7 | 48.6 | 62.7 | 13.2 | 0 | 36.8 | 147.0 |
| W96-359W | -- | | | 48.5 | 62.4 | 13.0 | 0 | 27.3 | 145.9 |
| W98-344 | -- | | 44.5 | 47.9 | 62.5 | 12.6 | 0 | 29.8 | 144.4 |
| AGRIPRO PALADIN | -- | 50.7 | 51.1 | 47.6 | 61.9 | 12.9 | 0 | 29.3 | 150.4 |
| WA008004 | -- | | | 43.9 | 61.1 | 12.0 | 0 | 31.8 | 152.3 |
| WANSER | -- | 46.4 | 43.0 | 43.8 | 63.0 | 12.3 | 0 | 34.8 | 149.6 |
| DW | -- | 47.7 | 47.9 | 42.6 | 61.9 | 12.9 | 0 | 30.0 | 152.3 |
| ORN00B507 | -- | | | 34.1 | 59.4 | 12.4 | 0 | 23.8 | 147.4 |
| ACS 51084 | -- | | | 23.9 | 59.7 | 13.0 | 0 | 26.0 | 149.3 |
| C.V. % | -- | 10.2 | 11.5 | 11.9 | 1.0 | 6.1 | -- | -- | -- |
| LSD '@. 10' | -- | 3.7 | 5.0 | 7.3 | 0.7 | 0.9 | -- | -- | -- |
| Average | -- | 54.4 | 54.4 | 52.4 | 61.4 | 12.1 | 0 | 32.3 | 151.5 |
| Highest | -- | 61.5 | 67.8 | 65.6 | 63.6 | 13.2 | 0 | 40.3 | 156.0 |
| Lowest | -- | 46.4 | 43.0 | 23.9 | 57.8 | 10.8 | 0 | 23.8 | 144.4 |

RITZVILLE HARD WINTER WHEAT – 2006 WSU VARIETY TESTING DATA

1. 2006 Hard Winter Wheat **YIELD DATA** from the WSU Variety Testing nursery at the Ritzville location averaged 52.4 bu/ac that was similar to the 3-year historical average (54.4 bu/ac). *NOTE: The Ritzville nursery was located eight miles northwest of Ritzville on Dewald Rd (E. Maier farm).*
2. This nursery was **seeded early** on 2 September 2005 on summer fallow ground using a deep furrow plot drill with split packer double disc openers into soil moisture that was about 4-inches below the surface. This nursery had excellent emergence that resulted in a very even and uniform stand with fairly large wheat going into the winter. The 17-19 Feb 2005 cold snap caused some winter injury to less hardy varieties, most notably ACS 51084 and ORN00B507.
3. **Stripe rust** was not a significant factor in the 2006 nursery even though traces of stripe rust could be observed on susceptible varieties.
4. **Yield differences** among many varieties were fairly slight. There appears to be somewhat of a trend that shows earlier varieties (earlier heading dates) with lower yield averages at this location. This nursery in particular seemed to suffer from the up-and-down weather patterns during the 2005-2006 growing season. There was an extreme dry weather pattern from mid-April (following Easter) to mid May with no precipitation followed at the end of this period (16-19 May 2006) with temperatures that soared into the 90's. Roots and crowns were sitting in extremely dry soil. Earlier/faster growing varieties were probably more negatively impacted by this weather/moisture pattern. Late May and early June precipitation seemed to make the 2006 crop, particularly for varieties that had growth and development patterns that dovetailed with these precipitation events. Late season precipitation and cooler weather during kernel development seemed to enhance test weight values for all varieties.
5. **Percent grain protein** had a range of 10.8%-13.2% and nearly all varieties met or exceeded the 11.5% protein requirement for the HRW market class.
6. Average **Test Weight** value was 61.4 lb/bu.