

2006 WSU EXTENSION SPRING BARLEY NURSERY AT FARMINGTON, WA.

| Variety Name | 5 YEAR AVERAGE (LBS/A) | 3 YEAR AVERAGE (LBS/A) | 2 YEAR AVERAGE (LBS/A) | 2006 | | | |
|--------------|------------------------------|------------------------------|------------------------------|------------------|----------------------|-------------|--------------|
| | | | | YIELD (LBS/A) | TEST WT. (LBS/BU) | PLANT HT | HEAD DATE |
| YU-501-385D | | | | 6845.5 | 52.0 | 39.3 | 181.5 |
| BOULDER | | 6171.8 | 5442.0 | 6353.5 | 52.6 | 38.7 | 181.0 |
| 01NZ392 | | 6374.3 | 5760.3 | 6234.0 | 47.7 | 40.0 | 182.0 |
| 03NZ199 | | | | 6141.0 | 48.2 | 31.7 | 185.5 |
| 02WA-7047.24 | | | | 6095.0 | 49.7 | 41.0 | 184.0 |
| FARMINGTON | 5942.1 | 6183.0 | 5364.8 | 6062.5 | 48.6 | 32.7 | 183.5 |
| RADIANT | 5410.4 | 5960.5 | 5347.0 | 6062.0 | 49.7 | 35.3 | 184.0 |
| SPAULDING | | | 4804.3 | 6039.0 | 52.7 | 38.0 | 181.5 |
| 01NZ384 | | | 5460.0 | 6012.0 | 46.2 | 44.3 | 182.0 |
| LEGACY | 5351.2 | 5515.5 | 5276.0 | 5947.0 | 47.8 | 44.0 | 180.0 |
| 02WA-7028.9 | | | | 5920.5 | 50.4 | 40.0 | 181.0 |
| 01NZ111 | | 5744.9 | 5210.1 | 5860.8 | 51.9 | 30.3 | 185.0 |
| 02WNZ-1015 | | | 4998.5 | 5849.5 | 49.8 | 37.0 | 183.0 |
| BURTON | | | 5265.3 | 5822.0 | 50.9 | 43.3 | 183.5 |
| 03NZ885 | | | | 5644.5 | 48.6 | 36.7 | 183.0 |
| 03GNZ-716 | | | | 5619.5 | 48.4 | 39.0 | 184.5 |
| 02WA-7029.7 | | | | 5614.5 | 48.4 | 34.3 | 183.5 |
| HARRINGTON | 5276.1 | 5634.0 | 5157.8 | 5569.0 | 48.5 | 40.7 | 183.0 |
| WA 15279-00 | | 5850.3 | 4978.5 | 5541.5 | 48.4 | 37.3 | 183.0 |
| 02WA-7052.9 | | | | 5494.5 | 50.4 | 37.3 | 183.0 |
| HE-8805 | | | | 5457.0 | 47.9 | 32.7 | 184.0 |
| WA 7330-00 | | 5854.2 | 5009.5 | 5438.0 | 49.7 | 38.0 | 183.0 |
| 03GNZ-722 | | | | 5383.0 | 48.3 | 38.7 | 184.5 |
| 03GNZ-834 | | | | 5365.5 | 48.7 | 36.3 | 183.5 |
| 03WNZ-164 | | | | 5360.0 | 49.7 | 37.3 | 183.0 |
| 01NZ338 | | 5592.3 | 4694.0 | 5336.0 | 46.0 | 39.3 | 183.5 |
| 03WNZ-262 | | | | 5330.3 | 48.9 | 33.7 | 183.0 |
| WA 10701-99 | | 5552.2 | 5033.0 | 5286.5 | 49.2 | 37.7 | 182.5 |
| AC METCALFE | | 5407.5 | 4764.3 | 5275.0 | 50.2 | 40.0 | 182.0 |
| 03WNZ-249 | | | | 5273.5 | 50.5 | 36.7 | 183.5 |
| 02WNZ-1095 | | | 4097.0 | 5273.0 | 51.0 | 34.3 | 182.5 |
| BOB | 5143.6 | 5204.2 | 4347.5 | 5271.0 | 50.1 | 41.0 | 181.5 |
| 02WA-7018.13 | | | | 5210.5 | 50.6 | 38.3 | 182.0 |
| BARONESSE | 5122.0 | 5252.0 | 4438.0 | 5047.5 | 49.9 | 38.0 | 183.0 |
| WA 9820-98 | | | | 4985.0 | 58.0 | 33.3 | 184.0 |
| YU-501-385N | | | | 4726.3 | 49.7 | 40.0 | 182.5 |
| 01NZ706 | | 5509.2 | 4583.6 | 4599.1 | 46.8 | 36.3 | 182.5 |
| MOREX | 4424.8 | 4584.8 | 4123.3 | 4562.0 | 49.2 | 45.3 | 178.0 |
| 02WNZ-1100 | | | 4117.0 | 4562.0 | 49.9 | 32.7 | 182.5 |
| MERESSE | | | | 4305.5 | 59.1 | 34.7 | 180.5 |
| C.V. % | 11.8 | 12.3 | 14.7 | 9.9 | 1.5 | -- | -- |
| LSD '@ .10' | 379.2 | 523.0 | 713.4 | 746.3 | 1.0 | -- | -- |
| Average | 5238.6 | 5649.4 | 4921.4 | 5519.4 | 49.9 | 37.6 | 182.7 |
| Highest | 5942.1 | 6374.3 | 5760.3 | 6845.5 | 59.1 | 45.3 | 185.5 |
| Lowest | 4424.8 | 4584.8 | 4097.0 | 4305.5 | 46.0 | 30.3 | 178.0 |

FARMINGTON SPRING BARLEY – 2006 WSU VARIETY TESTING DATA

1. 2006 Spring Barley **yield data** from the WSU Variety Testing nursery at the Farmington location averaged 5519.4 lbs/ac that were slightly lower than the 3-year average yield by 2.4% (130 lbs/ac). This nursery was planted on 1 May 2006 on re-crop ground following winter wheat. Base fertilizer applied was 95#N with 15#S. Soil moisture was good at only one (1) inch below the soil surface. *NOTE: This nursery was located, approximately 5 miles south of Farmington, WA on the Farmington/Garfield rd (B. Nelson farm).*
2. The Farmington, WA location is kind of a novel location for barley production compared to much of rest of the state because Baronesse does not float to the top in yield rankings. Fourteen entries out of the 40 newer varieties/experimental lines in the nursery had average **YIELD RANKINGS** that were statistically higher than Baronesse; however, Baronesse continues to part of the pedigree of many of the higher yielding varieties/lines. Historical 3-yr and 5-yr yield rankings tracked fairly well with the 2006 yield rankings among varieties
3. **TEST WEIGHT** average values were good at 49.9 lbs/bu; with a range among feed barley-types of 46.0 (01NZ338) to 52.7 lbs/bu (Spaulding).
4. **Two hull-less, waxy barleys** were included in the trial (WA9820-98 (WSU) and MERESSE (Westbred, LLC) that had exceedingly high test weight values due to the kernel characteristic with no 'hull'. Test weight values for these varieties were 58.0 lbs/bu and 59.1 lbs/bu, respectively. Waxy barley is a type of specialty barley that has several quality traits that make it adaptable to many end uses. Most notably, waxy barley has a modified starch profile and increased levels of beta-glucans. Varieties with waxy starch are ideal for many food and industrial applications. **Limitations of Waxy barley:** Generally waxy barley varieties have reduced yield between 20 and 30% compared to normal feed barley varieties. This yield reduction is in part due to the fact that most waxy barley varieties are also hull-less thus reducing their production per acre on a weight basis.