

2006 WSU EXTENSION SPRING BARLEY NURSERY AT REARDAN, 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 | | | | 5644.8 | 52.0 | 38.3 | 176.5 |
| SPAULDING | | | 4869.2 | 5477.6 | 52.7 | 37.3 | 178.0 |
| RADIANT | 4359.9 | 4811.6 | 4766.2 | 5415.6 | 50.5 | 37.3 | 179.0 |
| HE-8805 | | | | 5343.2 | 48.4 | 31.3 | 182.0 |
| BARONESSE | 4494.5 | 4751.3 | 4633.2 | 5212.4 | 50.0 | 37.7 | 178.5 |
| 02WNZ-1095 | | | 4747.6 | 5190.8 | 51.5 | 37.3 | 179.5 |
| 02WNZ-1015 | | | 4789.0 | 5186.4 | 50.3 | 34.7 | 179.5 |
| 03NZ885 | | | | 4990.8 | 49.5 | 35.3 | 179.0 |
| BOULDER | | 4456.1 | 4477.2 | 4921.2 | 52.3 | 37.3 | 178.5 |
| YU-501-385N | | | | 4915.2 | 50.0 | 45.0 | 177.0 |
| 02WA-7052.9 | | | | 4884.0 | 50.1 | 34.0 | 180.5 |
| 02WNZ-1100 | | | 4502.0 | 4846.8 | 50.7 | 34.7 | 179.5 |
| FARMINGTON | 4196.7 | 4432.3 | 4316.8 | 4835.6 | 49.4 | 30.7 | 182.0 |
| BOB | 4188.5 | 4570.3 | 4491.0 | 4831.6 | 50.8 | 38.0 | 177.0 |
| WA 15279-00 | | 4548.1 | 4411.2 | 4664.8 | 48.8 | 36.7 | 180.0 |
| 03WNZ-262 | | | | 4662.4 | 49.6 | 35.3 | 179.5 |
| WA 7330-00 | | 4292.0 | 4287.4 | 4638.4 | 49.7 | 37.0 | 178.5 |
| 02WA-7018.13 | | | | 4637.2 | 50.7 | 38.0 | 178.0 |
| 02WA-7028.9 | | | | 4620.8 | 49.6 | 37.3 | 179.0 |
| BURTON | | | 4312.4 | 4620.0 | 50.2 | 39.7 | 178.5 |
| AC METCALFE | | 4347.2 | 4203.4 | 4569.6 | 50.0 | 39.0 | 180.5 |
| 03NZ199 | | | | 4557.2 | 47.8 | 29.7 | 183.5 |
| 02WA-7047.24 | | | | 4507.2 | 50.5 | 38.0 | 180.5 |
| 02WA-7029.7 | | | | 4506.0 | 48.2 | 35.7 | 180.5 |
| HARRINGTON | 3958.4 | 4258.7 | 4221.8 | 4435.6 | 49.1 | 38.0 | 179.0 |
| WA 10701-99 | | 4322.3 | 4193.8 | 4411.2 | 50.7 | 38.3 | 179.5 |
| 01NZ111 | | 4420.4 | 4093.8 | 4406.0 | 51.7 | 30.3 | 183.5 |
| 01NZ392 | | 4088.3 | 3920.0 | 4341.6 | 47.3 | 40.0 | 180.0 |
| 01NZ384 | | | 4192.6 | 4245.6 | 46.5 | 40.0 | 180.5 |
| 01NZ706 | | 4140.7 | 3952.0 | 4192.0 | 46.0 | 37.7 | 181.5 |
| 03GNZ-722 | | | | 4103.2 | 48.7 | 35.3 | 181.5 |
| MOREX | 3408.8 | 3539.7 | 3667.2 | 4075.2 | 48.7 | 45.7 | 177.5 |
| 03WNZ-249 | | | | 4020.4 | 49.7 | 35.0 | 180.5 |
| 01NZ338 | | 3936.0 | 3809.8 | 3962.0 | 46.2 | 38.3 | 181.5 |
| 03GNZ-716 | | | | 3912.0 | 47.9 | 37.7 | 182.0 |
| 03GNZ-834 | | | | 3892.0 | 48.0 | 34.7 | 182.0 |
| LEGACY | 3875.5 | 4014.7 | 3758.4 | 3854.4 | 47.9 | 42.7 | 179.0 |
| 03WNZ-164 | | | | 3721.2 | 48.8 | 36.0 | 181.0 |
| WA 9820-98 | | | | 3694.4 | 59.4 | 31.0 | 182.5 |
| MERESSE | | | | 2422.8 | 55.3 | 31.7 | 177.5 |
| C.V. % | 7.3 | 6.6 | 6.4 | 7.1 | 1.4 | -- | -- |
| LSD '@ .10' | 185.0 | 224.4 | 265.9 | 437.7 | 1.0 | -- | -- |
| Average | 4068.9 | 4308.1 | 4300.7 | 4534.2 | 49.9 | 36.7 | 179.9 |
| Highest | 4494.5 | 4811.6 | 4869.2 | 5644.8 | 59.4 | 45.7 | 183.5 |
| Lowest | 3408.8 | 3539.7 | 3667.2 | 2422.8 | 46.0 | 29.7 | 176.5 |

REARDAN SPRING BARLEY – 2006 WSU VARIETY TESTING DATA

1. 2006 Spring Barley **yield data** from the WSU Variety Testing nursery at the Reardan location averaged 4534 lbs/ac that were **5% higher** than the 3-year average yield (4308 lbs/ac).
NOTE: This nursery was located, approximately 5 miles west of Reardan, WA on Janett Rd (H. Johnson farm).
2. The nursery was **seeded** on 20 April 2006 on re-crop ground following a spring (2005) mustard crop. There was good soil moisture at seeding with the moisture level just one-inch below the soil surface. Germination and emergence was good and the stand was uniform.
3. **Average YIELD RANKINGS** closely tracked with historical 3-yr and 5-yr yield rankings. The highest yielding line (YU-501-385D @ 5644 lbs/ac) is an experimental line from Westbred, LLC that is a cross of Baronesse x Camas. Camas, UI, was not included in the trial but is a variety noted for high test weight values that are trying to be attained when using it in crosses with other varieties. Radiant (WSU) and Baronesse (Westbred, LLC) continue to perform well at this location. An experimental line from WSU, 02WZN-1095, has also been showing high yields in the 2006 nurseries. In general, it appeared that earlier maturing varieties (heading date) seemed to have a yield and test weight advantage at this location in 2006. This is likely to be a function of capitalizing on the up-and-down weather patterns and avoiding some of the high temperature heat spikes during late June and July.
4. **TEST WEIGHT** average values were good at 49.9 lbs/bu; with a range among feed barley-types of 46.0 (01NZ706) to 52.7 lbs/bu (Spaulding).
5. **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 59.4lbs/bu and 55.3 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.