

2007 WSU EXTENSION SOFT WHITE WINTER WHEAT NURSERY AT LIND, WA.

| Variety Name <small>*Club Italized</small> | 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 |
| XERPHA | -- | -- | -- | 57.6 | 61.0 | 11.6 | 0 | 26.5 | 140.6 |
| GEORGE | -- | -- | -- | 53.3 | 61.2 | 12.3 | 0 | 25.8 | 142.1 |
| ID02-859 | -- | -- | -- | 53.2 | 60.0 | 11.5 | 0 | 22.5 | 138.8 |
| <i>EDWIN</i> | -- | -- | -- | 50.6 | 61.7 | 11.4 | 0 | 27.0 | 140.6 |
| ORI2042037 | -- | -- | -- | 50.4 | 61.1 | 12.2 | 0 | 22.8 | 141.8 |
| MASAMI | -- | -- | -- | 50.3 | 60.8 | 11.6 | 0 | 25.5 | 140.6 |
| <i>BRUEHL</i> | -- | -- | -- | 50.1 | 61.1 | 11.6 | 0 | 26.3 | 141.8 |
| ELTAN | -- | -- | -- | 50.0 | 61.7 | 12.0 | 0 | 26.0 | 141.4 |
| SALUTE | -- | -- | -- | 49.2 | 59.5 | 11.9 | 0 | 24.8 | 139.5 |
| <i>CHUKAR</i> | -- | -- | -- | 48.6 | 60.3 | 11.5 | 0 | 22.0 | 142.5 |
| ELTAN/MADSEN | -- | -- | -- | 48.2 | 61.2 | 12.2 | 0 | 24.8 | 141.4 |
| WA007934 | -- | -- | -- | 47.6 | 61.7 | 12.7 | 0 | 24.5 | 141.8 |
| WA008021 | -- | -- | -- | 47.1 | 60.6 | 12.6 | 0 | 23.8 | 141.0 |
| ELTAN/TUBBS | -- | -- | -- | 46.9 | 61.0 | 12.3 | 0 | 24.5 | 137.3 |
| FINCH | -- | -- | -- | 46.7 | 61.8 | 12.4 | 0 | 23.8 | 142.9 |
| TUBBS | -- | -- | -- | 46.6 | 60.3 | 11.6 | 0 | 25.0 | 137.3 |
| ORCF-102 | -- | -- | -- | 46.4 | 60.9 | 12.5 | 0 | 23.5 | 137.3 |
| MJ-9 | -- | -- | -- | 46.2 | 59.6 | 12.1 | 0 | 23.5 | 139.5 |
| WA008020 | -- | -- | -- | 46.2 | 59.9 | 12.4 | 0 | 22.3 | 143.6 |
| <i>ARS00235</i> | -- | -- | -- | 46.0 | 61.8 | 12.5 | 0 | 24.5 | 142.1 |
| WA008000 | -- | -- | -- | 45.9 | 61.0 | 11.8 | 0 | 24.0 | 141.4 |
| <i>CODA</i> | -- | -- | -- | 45.5 | 62.1 | 12.0 | 0 | 24.8 | 141.4 |
| TUBBS 06 | -- | -- | -- | 45.4 | 60.1 | 12.4 | 0 | 24.8 | 138.0 |
| ROD/TUBBS | -- | -- | -- | 45.2 | 60.4 | 12.0 | 0 | 24.5 | 136.9 |
| ROD | -- | -- | -- | 45.1 | 61.0 | 12.0 | 0 | 23.3 | 141.4 |
| BRUNDAGE 96 | -- | -- | -- | 45.1 | 60.4 | 12.0 | 0 | 23.0 | 137.6 |
| CASHUP | -- | -- | -- | 44.9 | 61.5 | 11.6 | 0 | 21.3 | 141.4 |
| WB 528 | -- | -- | -- | 44.0 | 61.7 | 13.2 | 0 | 25.0 | 135.0 |
| ORCF-101 | -- | -- | -- | 43.6 | 60.7 | 13.0 | 0 | 25.0 | 137.3 |
| ID990435 | -- | -- | -- | 43.4 | 60.3 | 12.0 | 0 | 25.5 | 136.1 |
| RJAMES | -- | -- | -- | 43.4 | 60.4 | 11.8 | 0 | 22.5 | 139.9 |
| MADSEN | -- | -- | -- | 43.2 | 60.3 | 12.7 | 0 | 24.5 | 140.3 |
| <i>RELY</i> | -- | -- | -- | 42.8 | 61.1 | 11.4 | 0 | 24.0 | 141.4 |
| AP 700 CL | -- | -- | -- | 42.7 | 60.0 | 12.4 | 0 | 24.3 | 135.8 |
| CONCEPT | -- | -- | -- | 42.5 | 61.6 | 12.0 | 0 | 23.0 | 141.0 |
| 9364901A | -- | -- | -- | 42.4 | 61.5 | 12.2 | 0 | 23.0 | 139.9 |
| STEPHENS | -- | -- | -- | 41.8 | 59.5 | 11.9 | 0 | 24.3 | 136.1 |
| <i>ARSC96059-1</i> | -- | -- | -- | 41.5 | 62.0 | 12.5 | 0 | 25.8 | 138.4 |
| BZ6WM02-1020 | -- | -- | -- | 41.2 | 60.5 | 11.6 | 0 | 21.8 | 142.5 |
| 9222407A | -- | -- | -- | 40.8 | 61.3 | 12.8 | 0 | 25.5 | 140.3 |
| <i>ARS970278-2</i> | -- | -- | -- | 40.5 | 60.7 | 11.8 | 0 | 25.5 | 140.3 |
| LAMBERT | -- | -- | -- | 39.6 | 60.7 | 11.9 | 0 | 27.0 | 136.5 |
| BU6W99-456 | -- | -- | -- | 39.4 | 61.3 | 13.7 | 0 | 23.0 | 135.0 |
| BU6W00-523 | -- | -- | -- | 38.7 | 61.1 | 12.9 | 0 | 25.8 | 137.6 |
| IDAHO 587 | -- | -- | -- | 38.2 | 60.2 | 11.9 | 0 | 23.0 | 136.9 |
| MADSEN/ROD | -- | -- | -- | 38.2 | 60.7 | 12.7 | 0 | 22.8 | 142.1 |
| MOHLER | -- | -- | -- | 37.6 | 60.8 | 12.3 | 0 | 24.0 | 137.6 |
| SIMON | -- | -- | -- | 35.8 | 60.7 | 13.2 | 0 | 23.3 | 139.1 |
| <i>CARA</i> | -- | -- | -- | 35.3 | 60.4 | 12.5 | 0 | 21.0 | 142.9 |
| MJ-4 | -- | -- | -- | 35.0 | 59.7 | 13.0 | 0 | 23.3 | 142.9 |
| C.V. % | -- | -- | -- | 10.5 | 0.6 | 3.4 | -- | -- | -- |
| LSD '@ .10' | -- | -- | -- | 5.5 | 0.5 | 0.5 | -- | -- | -- |
| Average | -- | -- | -- | 44.6 | 60.8 | 12.2 | 0 | 24.2 | 139.7 |
| Highest | -- | -- | -- | 57.6 | 62.1 | 13.7 | 0 | 27.0 | 143.6 |
| Lowest | -- | -- | -- | 35.0 | 59.5 | 11.4 | 0 | 21.0 | 135.0 |

LIND SOFT WHITE WINTER WHEAT – 2007 WSU VARIETY TESTING DATA

1. 2007 Soft White Winter Wheat **YIELD DATA** from the WSU Variety Testing nursery at the Lind location averaged 44.6 bu/ac. *NOTE: The Lind nursery was located on the WSU Dryland Research Experiment Station five miles NE of Lind, WA.* This nursery was **seeded early** on 31 August 2006 on summer fallow ground using a deep furrow plot drill with split packer double disc openers. Seeding rate was 45# per acre and a base fertilizer rate of 45# nitrogen per acre was applied to this nursery. A 6 March 2007 soil test showed 168#N, 23#P and 15#S availability.
2. This nursery had good emergence that resulted in an even and uniform stand. In general, the cold snaps at the end of October 2006 and the 10-day cold-snap in mid-January (11-21 Jan 2007) had minimal winter injury impact. The 3-month spring growing period from March through May 2007 was characterized by exceedingly cold, dry weather patterns and cold soil temperatures delayed early growth and development of winter wheat root systems and crowns.
3. **Stripe rust** was not a factor in the 2007 soft white winter wheat nursery. Stripe rust infection summary evaluations conducted by Dr. Xianming Chen, Plant Pathologist, USDA/ARS, Pullman, WA for all varieties included in the WSU Variety Testing Program winter wheat nurseries at six locations (including Lind, WA) are available on the WSU Extension Uniform Cereal Variety Web site under the Agronomy Updates section of the web site – posted 7-25-07. (<http://variety.wsu.edu/>).
4. **Yield differences** had a range of 35.0 to 57.6 bushels per acre. Spring weather patterns seemed to have had a more harmful effect on early spring growth-habit varieties by delaying spring wheat tiller growth and development. Later maturing varieties such as Eltan-types seemed to handle these weather patterns better. For example, seven of the twelve highest yielding varieties/lines at this location have Eltan in their pedigree.
5. Wheat quality in terms of **test weight** was exceptionally good at this location with an average test weight value of 60.8 lbs/bu.
6. **Percent grain protein** had a range of 11.4-13.7%. In some respects this could be explained by reduced tiller development in many varieties due to the spring growing conditions that enabled higher levels of nitrogen available for tillers that did develop. In addition, high temperatures during grain fill could have contributed to higher protein levels.