

## 2009 WSU EXTENSION SOFT WHITE SPRING WHEAT NURSERY AT LIND, WA.

| Variety Name<br>*Club Italized      | 5 YEAR<br>AVERAGE<br>(BU/A) | 3 YEAR<br>AVERAGE<br>(BU/A) | 2 YEAR<br>AVERAGE<br>(BU/A) | 2009            |                     |                |             |              |
|-------------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------|---------------------|----------------|-------------|--------------|
|                                     |                             |                             |                             | YIELD<br>(BU/A) | TEST WT<br>(LBS/BU) | PROTEIN<br>(%) | PLANT<br>HT | HEAD<br>DATE |
| BZ604-002                           |                             |                             |                             | 31              | 61.5                | 12.3           | 22          | 155          |
| WA008089                            |                             |                             | 24                          | 30              | 62.4                | 11.7           | 23          | 156          |
| WA008090                            |                             |                             | 24                          | 29              | 62.2                | 12.3           | 23          | 156          |
| WA008106                            |                             |                             |                             | 29              | 62.1                | 12.3           | 23          | 156          |
| LOUISE                              | 30                          | 26                          | 23                          | 28              | 61.7                | 11.8           | 25          | 156          |
| ALTURAS                             | 27                          | 25                          | 22                          | 28              | 61.3                | 12.5           | 20          | 156          |
| WHIT                                |                             | 24                          | 22                          | 28              | 60.9                | 12.2           | 21          | 155          |
| WA008112                            |                             |                             |                             | 28              | 61.0                | 12.2           | 23          | 159          |
| ZAK                                 | 26                          | 24                          | 22                          | 27              | 60.8                | 13.2           | 23          | 159          |
| NICK                                | 27                          | 25                          | 24                          | 27              | 61.1                | 13.0           | 20          | 156          |
| BABE                                |                             | 23                          | 22                          | 27              | 61.7                | 12.8           | 22          | 157          |
| <i>JD</i>                           |                             | 24                          | 21                          | 27              | 62.4                | 12.5           | 21          | 157          |
| <i>JD (HSR)</i>                     |                             |                             |                             | 27              | 62.5                | 12.4           | 21          | 157          |
| ALPOWA                              | 27                          | 24                          | 22                          | 26              | 61.8                | 12.8           | 22          | 158          |
| WA008104                            |                             |                             |                             | 26              | 62.4                | 13.1           | 23          | 155          |
| WA008039HF                          |                             |                             |                             | 26              | 61.9                | 13.0           | 22          | 156          |
| <i>EDEN (HSR)</i>                   |                             |                             |                             | 26              | 62.1                | 11.9           | 19          | 155          |
| <i>EDEN</i>                         | 26                          | 23                          | 20                          | 25              | 62.2                | 12.0           | 19          | 154          |
| WAKANZ                              | 27                          | 23                          | 20                          | 24              | 60.4                | 13.1           | 21          | 160          |
| CATALDO                             |                             | 23                          | 20                          | 24              | 59.7                | 12.6           | 18          | 155          |
| WA008059                            |                             | 21                          | 19                          | 24              | 60.4                | 13.6           | 22          | 156          |
| WA008108                            |                             |                             |                             | 24              | 62.3                | 13.3           | 23          | 155          |
| WA008041                            |                             | 21                          | 19                          | 23              | 60.1                | 13.2           | 23          | 158          |
| WA008058                            |                             |                             | 20                          | 23              | 60.7                | 13.6           | 22          | 155          |
| C.V. %                              | 7                           | 8                           | 7                           | 6               | 0.5                 | 1.9            | 5           | 0            |
| LSD <sup>1</sup> @ .10 <sup>1</sup> | 1                           | 1                           | 2                           | 2               | 0.4                 | 0.3            | 1           | 1            |
| Average                             | 27                          | 23                          | 22                          | 27              | 61.5                | 12.6           | 22          | 156          |
| Highest                             | 30                          | 26                          | 24                          | 31              | 62.5                | 13.6           | 25          | 160          |
| Lowest                              | 26                          | 21                          | 19                          | 23              | 59.7                | 11.7           | 18          | 154          |

1. Grain yield in the Lind soft white spring wheat trial averaged 27 bu/ac, equal to the average 5-year yield for this location. The Connell spring nursery was located about 3 miles northeast of Lind, WA on the WSU Lind Dryland Research Station.
2. This nursery was seeded on 19 March, 2009 following summer fallow. Seed was placed at a 60#/acre seeding rate using a double disc plot drill set on 6-inch spacing. Base fertilizer was not applied based on soil tests that showed adequate fertility. Spring seeding conditions were adequate and some spring rain made the outlook good for the spring crop until heading, when lack of moisture limited yield. The alpha lattice experimental designs improved variation allocation during statistical analysis and the CV by 41% compared to an RCBD design.
3. Yields ranged from 23 bu/ac to 31 bu/ac, with a CV of 6%. Yield values within the LSD range of the highest yield are shown in bold and 3 of the 24 entries are in this group. Club entries are listed in italicized print and the (HSR) designation is a 20% higher seeding rate for the club entries.
4. Test weights were good with an average of 61.5 lb/bu. Grain protein averaged 12.6% with a range of 11.7% to 13.6% and is higher than desired due to yield level and the available N at this site. The average plant height was 22 inches.