

## 2010 WSU EXTENSION SOFT WHITE SPRING WHEAT NURSERY AT MOSES LAKE, 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) | 2010            |                     |                |                |             |              |
|--------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------|---------------------|----------------|----------------|-------------|--------------|
|                                |                             |                             |                             | YIELD<br>(BU/A) | TEST WT<br>(LBS/BU) | PROTEIN<br>(%) | LODGING<br>(%) | PLANT<br>HT | HEAD<br>DATE |
| BABE                           | --                          | --                          | 118                         | <b>129</b>      | <b>62.5</b>         | 11.5           | 33             | 42          | 163          |
| ALTURAS                        | --                          | --                          | 126                         | <b>128</b>      | 60.8                | 11.3           | 0              | 37          | 162          |
| NICK                           | --                          | --                          | 127                         | <b>125</b>      | 60.9                | 11.8           | 43             | 39          | 161          |
| IDO599                         | --                          | --                          |                             | <b>125</b>      | 60.9                | 11.3           | 23             | 40          | 161          |
| WA008105                       | --                          | --                          |                             | <b>124</b>      | 60.3                | 11.2           | 17             | 39          | 163          |
| WA008106                       | --                          | --                          | 129                         | <b>119</b>      | <b>62.5</b>         | 11.2           | 77             | 46          | 162          |
| WHIT                           | --                          | --                          | 119                         | 115             | 61.0                | 11.9           | 55             | 40          | 161          |
| CATALDO                        | --                          | --                          | 118                         | 114             | 60.7                | 12.3           | 0              | 39          | 159          |
| <i>EDEN +25%</i>               | --                          | --                          | 114                         | 114             | <b>62.1</b>         | 11.6           | 40             | 40          | 164          |
| IDO671                         | --                          | --                          |                             | 114             | 60.5                | 11.2           | 23             | 43          | 162          |
| IDO669                         | --                          | --                          |                             | 111             | 60.8                | 11.7           | 67             | 43          | 164          |
| <i>EDEN</i>                    | --                          | --                          | 113                         | 108             | 61.7                | 11.6           | 23             | 39          | 163          |
| ALPOWA                         | --                          | --                          | 109                         | 106             | 61.8                | 11.9           | 62             | 43          | 167          |
| <i>JD</i>                      | --                          | --                          | 105                         | 106             | 61.8                | 11.8           | 52             | 44          | 165          |
| WA008089                       | --                          | --                          | 115                         | 106             | 60.9                | 11.3           | 83             | 42          | 164          |
| WA008110                       | --                          | --                          |                             | 105             | 58.5                | 12.1           | 32             | 40          | 167          |
| WA008107                       | --                          | --                          |                             | 104             | 61.3                | 12.6           | 37             | 40          | 163          |
| <i>JD +25%</i>                 | --                          | --                          | 106                         | 101             | 61.5                | 12.3           | 70             | 43          | 165          |
| WAKANZ                         | --                          | --                          | 109                         | 98              | 59.1                | 11.9           | 80             | 41          | 166          |
| WA008124                       | --                          | --                          |                             | 98              | 59.3                | 11.6           | 68             | 44          | 167          |
| ZAK                            | --                          | --                          | 106                         | 89              | 58.1                | 12.1           | 57             | 42          | 166          |
| LOUISE                         | --                          | --                          | 96                          | 87              | 58.8                | 11.9           | 90             | 40          | 164          |
| DIVA                           | --                          | --                          | 92                          | 85              | 59.2                | 11.9           | 90             | 42          | 164          |
| WA008113                       | --                          | --                          |                             | 85              | 60.2                | 12.2           | 80             | 41          | 165          |
| C.V. %                         | --                          | --                          | 8                           | 9               | 0.7                 | 2.2            | 46             | 5           | 0            |
| LSD '@ .10'                    | --                          | --                          | 9                           | 13              | 0.6                 | 0.4            | 32             | 3           | 1            |
| Average                        | --                          | --                          | 113                         | 108             | 60.6                | 11.8           | 50             | 41          | 164          |
| Highest                        | --                          | --                          | 129                         | 129             | 62.5                | 12.6           | 90             | 46          | 167          |
| Lowest                         | --                          | --                          | 92                          | 85              | 58.1                | 11.2           | 0              | 37          | 159          |

### Moses Lake Irrigated Soft White Spring Wheat – Preliminary Data

1. Grain yield in the Moses Lake soft white spring wheat trial averaged 108 bushels/acre. The Moses Lake nursery was located 12 miles west of Moses Lake, WA (J. LaFave, cooperator).
2. This nursery was seeded on 24 March, 2010 following Bluegrass seed. Seed was placed at a 90#/acre seeding rate using a double disk plot drill set on 6-inch spacing. Base fertilizer was 100#N/acre and another 70#/acre was applied through irrigation. Spring seeding conditions were good and stripe rust was not a big factor in this trial. The spring wheat breeding program cooperated with the variety testing program conducting this study.
3. Yields ranged from 85 bu/ac to 129 bu/ac. Yield values within the LSD range of the highest yield are shown in bold and 6 of the 24 entries are in this group. Babe was the highest yielding variety in the trail. The lattice RCBD experimental design improved variation allocation during statistical analysis and the CV by 16% for yield.
4. Test weights were good averaging 60.6 lb/bu and ranged from 58.1 to 62.5 lb/bu. Grain protein averaged 11.8% with a range of 11.2 to 12.6%. The average plant height was 41 inches. There was moderate lodging in the trial that influenced some variety performance and ranged from 0 to 90% lodged.