

## 2010 WSU SOFT WHITE SPRING WHEAT TRIAL SUMMARY

### Precipitation Zone= 12" - 16"

| VARIETY NAME<br>(SWH Club in italics) | ALMIRA       | ENDICOTT | LAMONT | AVERAGE YIELD | ALMIRA      | ENDICOTT | LAMONT | AVERAGE TEST WEIGHT | ALMIRA      | ENDICOTT | LAMONT | AVERAGE PROTEIN |
|---------------------------------------|--------------|----------|--------|---------------|-------------|----------|--------|---------------------|-------------|----------|--------|-----------------|
|                                       | YIELD (BU/A) |          |        |               | TW (LBS/BU) |          |        |                     | PROTEIN (%) |          |        |                 |
| WA008124                              | 32           | 81       | 100    | 71            | 50.0        | 63.0     | 62.0   | 58.3                | 17.7        | 11.0     | 11.7   | 13.5            |
| <i>JD</i>                             | 49           | 83       | 72     | 68            | 54.0        | 64.6     | 62.4   | 60.3                | 16.0        | 12.3     | 13.0   | 13.8            |
| IDO671                                | 43           | 72       | 86     | 67            | 51.7        | 62.9     | 62.0   | 58.9                | 14.4        | 11.1     | 11.8   | 12.4            |
| DIVA                                  | 46           | 79       | 76     | 67            | 50.4        | 63.2     | 61.2   | 58.3                | 15.0        | 10.9     | 11.8   | 12.6            |
| LOUISE                                | 47           | 81       | 71     | 66            | 50.4        | 62.9     | 60.4   | 57.9                | 14.4        | 10.7     | 11.9   | 12.3            |
| ALTURAS                               | 35           | 75       | 89     | 66            | 49.5        | 62.1     | 61.8   | 57.8                | 15.6        | 10.6     | 11.8   | 12.7            |
| IDO669                                | 43           | 78       | 75     | 65            | 52.1        | 63.0     | 61.8   | 59.0                | 16.1        | 11.4     | 12.3   | 13.3            |
| WA008110                              | 31           | 72       | 89     | 64            | 48.4        | 62.7     | 61.6   | 57.6                | 18.0        | 11.7     | 12.3   | 14.0            |
| <i>EDEN +25%</i>                      | 49           | 74       | 67     | 63            | 54.5        | 63.4     | 61.5   | 59.8                | 15.0        | 10.8     | 11.3   | 12.4            |
| <i>JD +25%</i>                        | 42           | 81       | 67     | 63            | 52.9        | 64.6     | 61.7   | 59.7                | 16.3        | 12.0     | 12.8   | 13.7            |
| WA008089                              | 38           | 72       | 79     | 63            | 51.6        | 63.3     | 62.0   | 59.0                | 15.7        | 10.8     | 11.9   | 12.8            |
| IDO599                                | 42           | 63       | 81     | 62            | 49.7        | 62.9     | 61.5   | 58.0                | 17.0        | 10.8     | 11.0   | 12.9            |
| ALPOWA                                | 52           | 59       | 72     | 61            | 53.4        | 62.9     | 61.2   | 59.2                | 14.9        | 11.2     | 11.1   | 12.4            |
| WAKANZ                                | 32           | 71       | 77     | 60            | 46.3        | 62.0     | 60.0   | 56.1                | 16.6        | 11.6     | 12.4   | 13.5            |
| WA008106                              | 38           | 68       | 71     | 59            | 51.3        | 63.4     | 61.7   | 58.8                | 15.0        | 11.6     | 12.2   | 12.9            |
| WA008113                              | 37           | 65       | 71     | 58            | 49.1        | 63.0     | 61.3   | 57.8                | 14.8        | 11.5     | 12.5   | 12.9            |
| WHIT                                  | 45           | 66       | 56     | 56            | 48.3        | 63.1     | 60.2   | 57.2                | 16.1        | 11.4     | 12.1   | 13.2            |
| ZAK                                   | 37           | 64       | 66     | 56            | 49.9        | 61.9     | 60.3   | 57.4                | 17.5        | 11.2     | 11.7   | 13.5            |
| <i>EDEN</i>                           | 32           | 68       | 60     | 53            | 49.7        | 63.6     | 60.9   | 58.1                | 16.2        | 11.0     | 11.1   | 12.8            |
| BABE                                  | 37           | 63       | 59     | 53            | 48.9        | 63.1     | 60.4   | 57.5                | 15.4        | 11.2     | 11.9   | 12.8            |
| WA008105                              | 36           | 63       | 58     | 52            | 50.6        | 62.2     | 60.2   | 57.7                | 16.5        | 10.4     | 10.6   | 12.5            |
| NICK                                  | 38           | 58       | 59     | 52            | 47.0        | 62.3     | 60.2   | 56.5                | 16.2        | 10.9     | 11.9   | 13.0            |
| WA008107                              | 43           | 59       | 53     | 52            | 51.5        | 62.4     | 60.6   | 58.2                | 16.3        | 12.0     | 12.8   | 13.7            |
| CATALDO                               | 33           | 54       | 59     | 49            | 48.3        | 61.3     | 59.4   | 56.3                | 16.0        | 11.2     | 11.8   | 13.0            |
| <b>CV (%)</b>                         | 23           | 7        | 15     | 14            | 5.2         | 0.6      | 1.2    | 2.7                 | 4.5         | 2.9      | 3.6    | 4.0             |
| <b>LSD (0.10)</b>                     | NS           | 7        | 15     | 7             | 3.6         | 0.5      | 1.0    | 1.2                 | 1.7         | 0.4      | 0.6    | 0.4             |
| <b>Average</b>                        | 40           | 70       | 71     | 60            | 50.4        | 62.9     | 61.1   | 58.1                | 16.0        | 11.2     | 11.9   | 13.0            |
| <b>Highest</b>                        | 52           | 83       | 100    | 71            | 54.5        | 64.6     | 62.4   | 60.3                | 18.0        | 12.3     | 13.0   | 14.0            |
| <b>Lowest</b>                         | 31           | 54       | 53     | 49            | 46.3        | 61.3     | 59.4   | 56.1                | 14.4        | 10.4     | 10.6   | 12.3            |

## 2010 WSU Soft White Spring Wheat Trial Summary Precipitation Zone 12" – 16" – Preliminary Data

1. Soft white spring wheat grain yield across three locations and 24 entries in the 12"-16" precipitation zone averaged 60 bushels/acre, 4 bushels/acre higher than the 2009 average. These trials were analyzed as Alpha Lattice designs that overall helped to account for within replication variation and reduced LSD and CV values. The highest value and other values within the LSD range are shown in bold for yield and test weight, but the lowest group is bolded for protein.
2. The Almira location was highly variable with non-significant results and the Lamont trial also had a higher than usual CV, but produced significant results and good yield separation of varieties. Thus, the combined data from these sites should be viewed with these limitations in mind. Please see the individual sites for further explanation of results.
3. Club varieties are indicated by italic print and the '+25%' designates a 25% higher seeding rate for two club varieties.
4. Test weight averaged 58.1 lb/bu across locations and entries, with a range of 56.1 lb/bu to 60.3 lb/bu. Test weights averaged over 2 lb/bu lower than last year. Grain protein averaged 13.0% with a range of 12.3% to 14.0%, over 1% numerically higher than last year's average.