

2016 WSU Variety Testing SW Winter Wheat Trial, Colton

| Variety Name<br><i>Club Italicized</i> | 2016            |                     |                |             |              |                | 2 Year            | 3 Year            | 5 Year            |
|--|-----------------|---------------------|----------------|-------------|--------------|----------------|-------------------|-------------------|-------------------|
|  | YIELD<br>(BU/A) | TEST WT<br>(LBS/BU) | PROTEIN<br>(%) | PLANT<br>HT | HEAD<br>DATE | LODGING<br>(%) | AVERAGE<br>(BU/A) | AVERAGE<br>(BU/A) | AVERAGE<br>(BU/A) |
| <b>RELEASED VARIETIES</b>              |                 |                     |                |             |              |                |                   |                   |                   |
| Rosalyn                                | 170             | 62.5                | 9.9            | 44          | 137          | 7              | 135               | 123               | 117               |
| UI Sparrow (IDO1108DH)                 | 158             | 61.4                | 9.7            | 46          | 139          | 13             |                   |                   |                   |
| UI Castle CL+                          | 154             | 63.6                | 10.9           | 45          | 140          | 0              |                   |                   |                   |
| <i>ARS-Crescent</i>                    | 154             | 63.2                | 10.0           | 47          | 143          | 12             | 136               | 127               | 124               |
| Bobtail                                | 153             | 62.6                | 10.9           | 44          | 135          | 0              | 131               | 122               | 121               |
| WB 1604                                | 152             | 63.7                | 10.7           | 44          | 140          | 0              | 118               |                   |                   |
| SY Assure (04PN096-2)                  | 151             | 63.8                | 10.7           | 45          | 138          | 0              |                   |                   |                   |
| SY 107                                 | 151             | 63.7                | 9.9            | 45          | 136          | 20             | 126               | 121               |                   |
| Legion                                 | 150             | 61.6                | 9.9            | 48          | 135          | 40             | 127               | 120               |                   |
| Mary                                   | 149             | 63.6                | 10.3           | 44          | 133          | 0              | 123               | 116               | 114               |
| WB-Junction                            | 149             | 64.3                | 10.2           | 45          | 135          | 12             | 123               | 116               |                   |
| UI Magic CL+                           | 148             | 63.7                | 10.9           | 41          | 131          | 0              |                   |                   |                   |
| WB 528                                 | 148             | 64.2                | 11.0           | 46          | 141          | 10             | 119               | 114               | 110               |
| LCS Artdeco                            | 146             | 62.5                | 10.0           | 42          | 138          | 0              | 123               | 120               | 118               |
| ARS-Selbu                              | 145             | 64.2                | 11.0           | 47          | 139          | 0              | 128               | 118               | 117               |
| SY Ovation                             | 144             | 63.2                | 10.4           | 45          | 137          | 0              | 123               | 118               |                   |
| Xerpha                                 | 144             | 63.2                | 10.6           | 46          | 138          | 0              | 129               | 123               | 123               |
| Norwest Duet (LOR-092)                 | 141             | 63.3                | 10.7           | 51          | 132          | 0              |                   |                   |                   |
| Madsen                                 | 141             | 62.8                | 11.1           | 47          | 140          | 0              | 119               | 113               | 113               |
| WB 523                                 | 140             | 64.2                | 10.7           | 45          | 135          | 5              | 121               | 113               |                   |
| Skiles                                 | 140             | 63.3                | 11.5           | 44          | 131          | 0              | 122               | 118               | 114               |
| <i>Cara</i>                            | 140             | 63.0                | 10.7           | 45          | 138          | 2              | 124               | 113               | 112               |
| WB 1529                                | 139             | 64.3                | 11.3           | 43          | 135          | 10             | 118               |                   |                   |
| ORCF-102                               | 138             | 62.9                | 10.6           | 47          | 135          | 0              | 121               | 114               |                   |
| UI-WSU Huffman (IDN-03-29902A)         | 137             | 62.8                | 10.9           | 46          | 138          | 2              | 122               | 116               |                   |
| UI Palouse CL+                         | 137             | 62.9                | 10.5           | 43          | 136          | 0              |                   |                   |                   |
| Curiosity CL+                          | 135             | 60.7                | 10.2           | 47          | 140          | 45             | 120               |                   |                   |
| Puma                                   | 133             | 63.0                | 10.4           | 51          | 137          | 7              | 123               | 119               | 120               |
| WB 1376CLP                             | 129             | 65.0                | 11.8           | 45          | 132          | 0              |                   |                   |                   |
| AP700 CL                               | 127             | 63.1                | 10.7           | 45          | 132          | 0              | 108               | 105               |                   |
| Mela CL+                               | 120             | 61.4                | 10.1           | 45          | 141          | 52             | 117               |                   |                   |
| <b>EXPERIMENTAL LINES</b>              |                 |                     |                |             |              |                |                   |                   |                   |
| WA 8234                                | 161             | 63.9                | 10.4           | 47          | 136          | 3              | 128               |                   |                   |
| LWW14-73163                            | 158             | 64.4                | 10.1           | 43          | 135          | 0              |                   |                   |                   |
| Xerpha-0W                              | 156             | 62.7                | 10.7           | 48          | 139          | 0              |                   |                   |                   |
| IDN 06-18102A                          | 155             | 62.3                | 10.0           | 44          | 136          | 0              |                   |                   |                   |
| 09PN062#18                             | 154             | 63.2                | 10.5           | 45          | 139          | 0              |                   |                   |                   |
| WA 8235                                | 153             | 63.2                | 10.9           | 41          | 138          | 0              | 121               |                   |                   |
| IDN 07-28017B                          | 152             | 64.4                | 10.7           | 44          | 130          | 0              |                   |                   |                   |
| IDN 06-03303B                          | 152             | 62.7                | 10.1           | 44          | 134          | 0              |                   |                   |                   |
| Xerpha-G2                              | 151             | 63.1                | 10.5           | 45          | 139          | 0              |                   |                   |                   |
| IDN 01-10704A                          | 151             | 63.0                | 10.1           | 47          | 136          | 0              | 130               | 122               |                   |
| WA 8232                                | 151             | 63.8                | 10.1           | 47          | 137          | 7              | 129               |                   |                   |
| WA 8245                                | 151             | 62.1                | 10.2           | 45          | 140          | 0              |                   |                   |                   |

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|  | YIELD<br>(BU/A) | TEST WT<br>(LBS/BU) | PROTEIN<br>(%) | PLANT<br>HT | HEAD<br>DATE | LODGING<br>(%) | AVERAGE<br>(BU/A) | AVERAGE<br>(BU/A) | AVERAGE<br>(BU/A) |
| <b>KXB-01</b>                          | 150             | 62.7                | 10.8           | 46          | 141          | 0              |                   |                   |                   |
| <b>LOR-833</b>                         | 147             | 63.6                | 10.9           | 40          | 137          | 0              |                   |                   |                   |
| <b>WA 8187</b>                         | 147             | 63.2                | 10.3           | 42          | 137          | 0              | 122               | 117               |                   |
| <b>WA 8206</b>                         | 142             | 62.8                | 10.8           | 45          | 139          | 0              | 120               | 117               |                   |
| <b>OR2110526</b>                       | 137             | 63.4                | 10.9           | 46          | 140          | 7              |                   |                   |                   |
| <b>LOR-913</b>                         | 135             | 63.1                | 10.6           | 43          | 134          | 0              |                   |                   |                   |
| <b>WA 8233</b>                         | 121             | 61.7                | 9.9            | 46          | 139          | 23             | 119               |                   |                   |
| <i>ARS20060123-31C</i>                 | 113             | 64.1                | 11.3           | 49          | 136          | 27             | 115               |                   |                   |
| <i>ARS06136-49C</i>                    | 106             | 63.1                | 11.2           | 48          | 138          | 33             |                   |                   |                   |
| <b>C.V. %</b>                          | 6               | 1                   | 3              | 4           | 2            | --             | 5                 | 6                 | 6                 |
| <b>LSD (0.05)</b>                      | 11              | 0.6                 | 0.4            | 2           | 3            | 19             | 8                 | 6                 | 5                 |
| <b>Average</b>                         | 144             | 63.2                | 10.6           | 45          | 137          | 6              | 123               | 118               | 117               |
| <b>Highest</b>                         | 170             | 65.0                | 11.8           | 51          | 143          | 52             | 136               | 127               | 124               |
| <b>Lowest</b>                          | 106             | 60.7                | 9.7            | 40          | 130          | 0              | 108               | 105               | 110               |

### Agronomic Information

|                            |           |
|----------------------------|-----------|
| Planting Date:             | 9/29/2015 |
| Harvest Date:              | 8/8/2016  |
| Seeding Rate (lbs/acre):   | 95        |
| Previous Crop:             | Chickpeas |
| Spring soil test:          |           |
| N (lb/ac) 4-ft sample      | 157       |
| P (ppm-bicarb) 2-ft sample | 51        |
| S (lb/ac) 2-ft sample      | 37        |
| pH (top 6 inches)          | 5.04      |

### Trial Notes:

1. The Colton nursery was located about 1/2 mile south of Colton, WA. All yield and test weight values within the 5% LSD range of the highest value are shown in bold.
2. Stripe rust was not a factor at this location.
3. This trial looked good all year and produced very uniform results with excellent test weights.

**Cooperator:** A. Schultheis

### Herbicide:

Zidua on 10/4; Supremacy, Propiconazole, Evito on 4/8; Propi-Star, Evito on 5/24; TebuStar, Dimethoate on 6/15.