

2012 WSU Variety Testing Hard Winter Wheat Trial, Almira

| Variety Name <i>*Hard White Italicized</i> | 5 YEAR AVERAGE (BU/A) | 3 YEAR AVERAGE (BU/A) | 2 YEAR AVERAGE (BU/A) | 2012 | | | | | |
|---|-----------------------------|-----------------------------|-----------------------------|-----------------|---------------------|----------------|-------------|--------------|----------------|
| | | | | YIELD (BU/A) | TEST WT (LBS/BU) | PROTEIN (%) | PLANT HT | HEAD DATE | LODGING (%) |
| Norwest 553 | 108 | 124 | 110 | 138 | 62.6 | 11.4 | 36 | 151 | 0 |
| <i>MDM</i> | 102 | 106 | 113 | 134 | 60.3 | 10.6 | 42 | 158 | 0 |
| WA 8156 | | | | 129 | 62.2 | 10.5 | 47 | 156 | 0 |
| WA 8157 | | | | 129 | 61.0 | 9.9 | 39 | 150 | 15 |
| Azimut | | | 120 | 128 | 58.9 | 10.3 | 35 | 150 | 0 |
| Bauermeister | 100 | 104 | 111 | 125 | 60.9 | 11.1 | 40 | 158 | 0 |
| WA 8119 | | 102 | 104 | 124 | 60.7 | 10.0 | 40 | 154 | 0 |
| Eltan | 97 | 97 | 106 | 123 | 60.7 | 10.3 | 40 | 158 | 0 |
| Altigo | | | 91 | 122 | 59.7 | 10.1 | 37 | 151 | 0 |
| <i>OR2080236H</i> | | | | 121 | 61.8 | 10.5 | 40 | 158 | 0 |
| Boundary | 103 | 109 | 115 | 119 | 62.1 | 11.7 | 43 | 153 | 0 |
| <i>OR2080227H</i> | | | | 118 | 63.0 | 10.5 | 39 | 152 | 0 |
| <i>WA 8159</i> | | | | 117 | 60.3 | 11.2 | 46 | 156 | 0 |
| <i>UI Silver</i> | | 108 | 106 | 115 | 63.5 | 10.7 | 43 | 154 | 0 |
| Eddy | 95 | 98 | 93 | 112 | 63.2 | 10.5 | 42 | 149 | 0 |
| <i>OR2080229H</i> | | 118 | | 111 | 63.3 | 10.8 | 40 | 155 | 0 |
| IDO816 | | | | 106 | 61.5 | 11.2 | 44 | 156 | 0 |
| <i>OR2080156H</i> | | 93 | 85 | 103 | 62.5 | 11.7 | 40 | 155 | 0 |
| <i>WA 8158</i> | | | | 101 | 62.5 | 11.7 | 40 | 157 | 0 |
| Farnum | 87 | 86 | 93 | 97 | 61.3 | 11.4 | 47 | 159 | 0 |
| UI SRG | | | 96 | 96 | 61.7 | 11.2 | 50 | 154 | 0 |
| WA 8118 | | 98 | 89 | 91 | 62.2 | 11.0 | 44 | 149 | 17 |
| Finley | 86 | 87 | 83 | 91 | 62.3 | 11.9 | 48 | 154 | 0 |
| <i>UICF-Grace</i> | | 82 | 75 | 81 | 60.9 | 12.6 | 49 | 152 | 25 |
| C.V. % | 12 | 13 | 13 | 8 | 1.3 | 7.5 | 5 | 1 | 388 |
| LSD (.10) | 5 | 8 | 10 | 10 | 0.9 | 0.9 | 2 | 1 | 10 |
| Average | 97 | 101 | 99 | 114 | 61.6 | 11.0 | 42 | 154 | 2 |
| Highest | 108 | 124 | 120 | 138 | 63.5 | 12.6 | 50 | 159 | 25 |
| Lowest | 86 | 82 | 75 | 81 | 58.9 | 9.9 | 35 | 149 | 0 |

Almira Hard Winter Wheat - Preliminary Data

1. Grain yield in the 2012 Almira hard winter wheat trial averaged 114 bushels/acre, 17 bushels/acre higher than the 5-year average. The Almira nursery was located about 6 miles north of Almira, WA (Dan McKay, cooperator).

2. This nursery was seeded on 13 September, 2011 following spring wheat. Seed was placed at an 85#/acre seeding rate using a double-disc plot drill set on 6-inch spacing. Base fertilizer was 85#N/acre applied pre-plant. Based on a spring soil test showing 263 lbs./acre available N, 13#N/acre additional fertilizer was applied for hard wheat protein based on expected yields. Fall seeding conditions were good as were emergence and stand establishment.

3. Yields ranged from 81 bu/ac to 138 bu/ac. 'Norwest 553' was the highest yielding named entry in this trial. All yield values within the 10% LSD range of the highest yield are shown in bold and this included 5 of the 24 entries. Norwest 553 was also the top yielding hard entry across five years of results at this location. Stripe rust potential at this location was controlled by fungicide applied 5 May at herbicide timing and at 11 June.

4. Test weights were very good averaging 61.6 lbs./bu and ranged from 58.9 to 63.5 lbs./bu. Grain protein averaged only 11.0% with a range of 9.9 to 12.6% and reflects the above average yields. Plant height averaged 42 inches and a few entries had lodging.