

## 2012 WSU Variety Testing Hard Winter Wheat Trial, Ritzville

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 (%)
<b>Boundary</b>	56	67	73	<b>72</b>	60.1	7.6	35	142	0
<b>WA 8156</b>				<b>70</b>	59.9	7.8	37	147	0
<b>WA 8157</b>				<b>69</b>	60.7	8.7	35	142	0
<i>OR2080229H</i>		60		<b>69</b>	62.3	8.1	37	143	5
<i>UI Silver</i>		64	70	<b>68</b>	<b>62.4</b>	8.6	38	144	10
<i>OR2080236H</i>				<b>68</b>	61.4	8.7	35	147	0
<b>Eddy</b>	48	55	62	<b>67</b>	60.9	8.9	35	141	0
<b>WA 8119</b>		72	72	<b>66</b>	60.7	8.9	36	147	0
<i>WA 8159</i>				<b>65</b>	60.4	8.6	39	146	0
<b>Eltan</b>	62	70	71	<b>65</b>	59.3	7.5	37	148	2
<i>OR2080227H</i>				<b>65</b>	61.8	7.9	37	144	0
<b>Altigo</b>			73	<b>64</b>	56.5	7.8	32	142	0
<b>Finley</b>	52	57	59	63	<b>62.8</b>	8.6	42	141	0
<b>Norwest 553</b>	52	64	71	63	60.6	8.5	33	143	0
<b>UI SRG</b>			67	63	60.6	8.6	43	142	7
<b>Bauermeister</b>	55	62	62	61	60.8	7.6	38	148	3
<b>Farnum</b>	55	62	61	61	60.0	8.2	43	150	3
<b>Azimut</b>			70	60	57.5	7.9	31	141	0
<i>WA 8158</i>				59	60.9	8.3	39	145	2
<i>UICF-Grace</i>		52	57	59	61.1	9.1	45	140	12
<i>MDM</i>	57	64	65	57	60.0	7.3	36	148	0
<i>OR2080156H</i>		58	65	56	59.8	8.6	34	142	0
<b>WA 8118</b>		52	56	54	60.4	9.3	37	140	5
<b>IDO816</b>				54	60.7	9.3	39	147	0
<b>C.V. %</b>	11	11	11	11	0.7	8.8	4	1	219
<b>LSD (.10)</b>	3	4	6	8	0.4	0.8	2	1	5
<b>Average</b>	55	61	66	63	60.5	8.4	37	144	2
<b>Highest</b>	62	72	73	72	62.8	9.3	45	150	12
<b>Lowest</b>	48	52	56	54	56.5	7.3	31	140	0

### Ritzville Hard Winter Wheat - Preliminary Data

1. Grain yield in the 2012 Ritzville hard winter wheat trial averaged 63 bushels/acre, 8 bushels/acre higher than the 5-year average. The Ritzville nursery was located about four miles west of Ritzville, WA (Ron Jirava, cooperator).

2. This nursery was seeded on 12 September, 2011 following fallow. Seed was placed at a 45#/acre seeding rate using a deep-furrow plot drill set on 15-inch spacing. Base fertilizer was 60#N/acre pre-plant applied. Based on a spring soil test showing 126 lbs./acre available N, 48 lbs./acre of additional N 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 54 bu/ac to 72 bu/ac. 'Boundary' 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 12 of the 24 entries. The hard white variety 'MDM' was the top yielding hard entry across five years of results at this location. Stripe rust potential at this location was slight and fungicide was only applied for stripe rust control 10 April at herbicide application timing.

4. Test weights averaged 60.5 lbs./bu and ranged from 56.5 to 62.8 lbs./bu. Grain protein averaged only 8.4% with a range of 7.3 to 9.3% and the trial was low in protein at least partially due to above average yields. Plant height averaged 37 inches and there was slight lodging by some entries.