

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

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>Norwest 553</b>	148	163	162	<b>145</b>	63.4	11.9	38	152	0
<i>OR2080227H</i>				<b>135</b>	63.1	10.3	42	154	0
<b>Altigo</b>			148	<b>134</b>	60.1	11.3	39	150	0
<i>OR2080236H</i>				129	61.9	11.1	43	156	25
<i>OR2080156H</i>		141	140	126	62.8	11.8	40	154	0
<i>OR2080229H</i>		142		126	<b>64.4</b>	10.4	44	154	0
<b>Eddy</b>	111	115	124	121	<b>63.9</b>	12.0	39	150	0
<b>WA 8119</b>		132	117	121	61.2	10.1	44	157	0
<b>Boundary</b>	114	119	116	119	62.9	11.3	43	155	0
<b>Azimut</b>			125	116	59.9	11.0	36	149	0
<i>WA 8159</i>				113	60.6	11.1	48	157	0
<b>Bauermeister</b>	110	115	111	112	61.4	10.6	43	158	33
<b>WA 8157</b>				109	60.3	11.2	41	150	0
<i>MDM</i>	109	115	111	108	61.2	11.2	43	158	65
<i>UI Silver</i>		132	122	107	63.4	11.1	44	154	23
<i>WA 8158</i>				103	61.1	12.8	46	154	25
<b>IDO816</b>				103	61.2	12.0	45	156	33
<b>WA 8156</b>				100	62.1	11.8	50	158	25
<b>Eltan</b>	108	114	110	98	60.5	11.5	41	156	75
<b>Finley</b>	98	100	94	86	63.1	12.7	47	154	83
<b>UI SRG</b>			95	84	61.0	12.2	46	154	58
<b>WA 8118</b>		104	88	78	60.8	13.5	42	148	100
<i>UICF-Grace</i>		86	75	78	60.9	12.4	47	155	90
<b>Farnum</b>	92	95	87	77	61.3	12.6	47	160	95
<b>C.V. %</b>	9	9	10	11	1.1	5.7	5	1	87
<b>LSD (.10)</b>	4	6	9	13	0.7	0.7	2	1	28
<b>Average</b>	111	119	114	109	61.8	11.6	43	154	30
<b>Highest</b>	148	163	162	145	64.4	13.5	50	160	100
<b>Lowest</b>	92	86	75	77	59.9	10.1	36	148	0

### Dayton Hard Winter Wheat - Preliminary Data

1. Grain yield in the 2012 Dayton hard winter wheat trial averaged 109 bushels/acre, 2 bushels/acre lower than the 5-year average. The Dayton nursery was located about 6 miles northwest of Dayton, WA (Jay Penner, cooperator).
2. This nursery was seeded on 28 September, 2011 following fallow. Seed was placed at an 85#/acre seeding rate using a double-disc plot drill set on 6-inch spacing. Base fertilizer was 135#N/acre applied pre-plant. Based on a spring soil test showing 259 lbs./acre available N, 60#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 77 bu/ac to 145 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 3 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 moderate and fungicide was applied 29 March at herbicide timing and at 29 April along with an insecticide.
4. Test weights were very good averaging 61.8 lbs./bu and ranged from 59.9 to 64.4 lbs./bu. Grain protein averaged only 11.6% with a range of 10.1 to 13.5%. Plant height averaged 43 inches and about half the entries had lodging that influenced yield potential.