

## 2012 WSU Variety Testing Hard Winter Wheat Trial, St. Andrews

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
Bauermeister	56	66	69	<b>74</b>	<b>62.6</b>	11.1	38	162
Eltan	53	62	66	<b>73</b>	62.1	10.4	37	162
Boundary	56	65	67	<b>70</b>	61.8	11.5	34	159
<i>MDM</i>	52	60	63	<b>68</b>	62.2	11.0	37	163
UI SRG			65	61	62.2	12.6	40	158
Farnum	53	60	61	61	60.9	12.5	41	164
Norwest 553	40	46	59	61	<b>62.8</b>	12.2	32	157
<i>OR2080236H</i>				61	62.0	11.8	35	159
<i>UI Silver</i>		61	60	59	<b>63.6</b>	11.9	35	158
<i>OR2080227H</i>				59	<b>62.5</b>	11.7	36	158
Eddy	44	55	59	59	<b>63.5</b>	12.9	35	157
Altigo			50	59	58.9	11.8	33	157
Azimut			57	58	59.9	11.2	31	156
<i>OR2080229H</i>		47		58	<b>63.1</b>	11.2	35	159
<i>WA 8158</i>				57	61.4	13.1	37	160
WA 8119		66	64	56	60.8	11.4	33	159
Finley	48	56	56	56	<b>62.9</b>	12.3	44	156
<i>WA 8159</i>				55	60.6	12.2	36	161
WA 8156				54	59.2	10.8	38	161
<i>UICF-Grace</i>		46	45	53	61.8	12.7	45	155
IDO816				52	62.0	12.7	38	160
<i>OR2080156H</i>		43	52	49	62.2	12.5	33	159
WA 8118		52	51	47	62.1	13.2	36	155
WA 8157				44	59.1	11.9	36	156
C.V. %	14	15	15	14	1.8	4.9	5	0
LSD (.10)	3	5	6	9	1.2	0.6	2	1
Average	50	56	59	59	61.7	11.9	36	159
Highest	56	66	69	74	63.6	13.2	45	164
Lowest	40	43	45	44	58.9	10.4	31	155

### St. Andrews Hard Winter Wheat - Preliminary Data

1. Grain yield in the 2012 St. Andrews hard winter wheat trial averaged 59 bushels/acre, 9 bushels/acre higher than the 5-year average. The St. Andrews nursery was located about 7 miles west of Coulee City, WA (Larry Tannenberg, cooperator).
2. This nursery was seeded on 13 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 50#N/acre applied pre-plant. Based on a spring soil test showing 236 lbs./acre available N, no 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 44 bu/ac to 74 bu/ac. 'Bauermeister' 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 4 of the 24 entries. Bauermeister and 'Boundary' were 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 7 May at herbicide application timing.
4. Test weights averaged 61.7 lbs./bu and ranged from 58.9 to 63.6 lbs./bu. Grain protein averaged only 11.9% with a range of 10.4 to 13.2%. Plant height averaged 36 inches and there was no lodging.