

2012 WSU Variety Testing Hard Winter Wheat Trial, Pullman

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 (%)
IDO816				135	60.5	11.7	43	158	0
Altigo			149	129	57.2	11.8	34	156	0
<i>OR2080229H</i>		130		129	61.4	11.9	40	158	0
WA 8156				128	61.2	12.0	50	161	0
<i>OR2080156H</i>		137	144	123	59.3	11.9	40	157	0
<i>OR2080227H</i>				123	60.6	11.4	40	157	0
UI SRG			148	122	60.8	12.2	47	157	0
Boundary	133	132	137	120	59.9	11.8	42	157	0
WA 8119		144	153	120	55.9	12.2	47	160	0
<i>OR2080236H</i>				119	57.6	12.6	39	160	0
<i>WA 8159</i>				119	57.4	12.3	42	160	0
Eddy	110	116	128	118	62.9	12.2	37	156	0
Eltan	136	126	140	118	58.1	11.6	47	162	25
<i>UI Silver</i>		138	142	118	60.3	12.0	43	158	0
Norwest 553	132	136	142	117	59.7	13.4	33	156	0
<i>WA 8158</i>				117	59.4	13.0	47	160	0
WA 8157				115	57.9	12.9	40	156	35
Azimut			136	115	55.6	12.3	34	155	0
WA 8118		126	140	112	60.4	14.6	45	155	58
<i>MDM</i>	132	124	138	109	58.5	11.8	47	162	0
<i>UICF-Grace</i>		118	123	108	58.2	12.6	40	155	73
Bauermeister	128	118	130	107	55.0	11.4	45	160	0
Finley	121	119	128	105	61.1	11.7	48	156	42
Farnum	110	108	116	104	57.0	12.4	46	164	68
C.V. %	9	11	10	11	3.5	4.8	8	1	59
LSD (.10)	5	8	10	14	2.2	0.6	4	1	8
Average	125	126	137	118	59.0	12.2	42	158	13
Highest	136	144	153	135	62.9	14.6	50	164	73
Lowest	110	108	116	104	55.0	11.4	33	155	0

Pullman Hard Winter Wheat - Preliminary Data

1. Grain yield in the 2012 Pullman hard winter wheat trial averaged 118 bushels/acre, 7 bushels/acre lower than the 5-year average. The Pullman nursery was located about 3 miles southeast of Pullman, WA (N. & R. Druffel, cooperators).

2. This nursery was seeded on 19 October, 2011 following chickpea. Seed was placed at an 85#/acre seeding rate using a double-disc plot drill set on 6-inch spacing. Base fertilizer was 120#N/acre applied pre-plant. Based on a spring soil test showing 204 lbs./acre available N, 10#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 104 bu/ac to 135 bu/ac. 'Altigo' 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 7 of the 24 entries. 'Boundary' was 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 with the herbicide and at flag leaf emergence.

4. Test weights were variable averaging 59.0 lbs./bu and ranged from 55.0 to 62.9 lbs./bu. High lodging by some varieties contributed to lower test weights and yield. Grain protein averaged only 12.2% with a range of 11.4 to 14.6%. Plant height averaged 42 inches and several entries had high lodging.