

2012 WSU Variety Testing Hard Winter Wheat Trial, Walla Walla

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 (%)
<i>OR2080227H</i>				135	61.9	9.8	45	148	0
Altigo			140	130	58.5	10.7	38	147	0
<i>OR2080229H</i>		134		130	62.2	9.6	47	149	7
Norwest 553	131	133	131	122	62.6	11.6	39	147	0
<i>OR2080236H</i>				122	61.6	11.1	43	152	3
<i>OR2080156H</i>		126	129	110	62.0	10.7	43	148	0
Azimut			138	109	58.8	10.9	35	146	0
WA 8119		99	113	102	59.3	10.2	47	152	53
<i>UI Silver</i>		91	95	100	60.7	10.0	47	149	78
<i>WA 8159</i>				94	57.8	11.0	50	151	80
Eddy	102	84	88	93	62.2	12.4	45	147	48
IDO816				84	59.5	11.9	45	148	92
Eltan	94	81	93	84	57.3	11.1	44	152	60
<i>MDM</i>	90	77	87	82	58.1	11.3	43	153	62
UI SRG			88	80	58.3	12.0	50	148	90
Finley	74	69	74	72	61.7	12.5	52	148	90
WA 8118		79	82	72	59.2	12.7	51	146	87
Bauermeister	93	79	84	71	58.6	11.1	41	149	93
<i>WA 8158</i>				69	58.5	11.9	46	152	93
WA 8156				68	58.7	11.8	50	151	93
WA 8157				66	57.0	10.9	40	147	90
Boundary	102	88	87	62	60.7	10.4	43	147	60
Farnum	72	57	65	62	58.6	12.6	45	155	90
<i>UICF-Grace</i>		68	68	57	58.4	13.0	54	147	93
C.V. %	12	14	11	10	1.3	7.5	5	1	36
LSD (.10)	5	8	8	9	0.8	0.9	3	2	22
Average	95	90	98	91	59.7	11.3	45	149	57
Highest	131	134	140	135	62.6	13.0	54	155	93
Lowest	72	57	65	57	57.0	9.6	35	146	0

Walla Walla Hard Winter Wheat - Preliminary Data

1. Grain yield in the 2012 Walla Walla hard winter wheat trial averaged 91 bushels/acre, 4 bushels/acre lower than the 5-year average. The Walla Walla nursery was located about six miles north of Walla Walla, WA (Jason and Tom Beechinor, cooperators).
2. This nursery was seeded on 28 September, 2011 following chem-fallow. Seed was placed at an 85#/acre seeding rate using a Cross-Slot opener equipped no-till plot drill set on 10-inch spacing. Base fertilizer was 114#N/acre pre-plant applied. Based on a spring soil test showing 210 lbs./acre available N, 66# 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 57 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 3 of the 24 entries. 'Norwest 553' was the top yielding hard entry across five years of results at this location. There were high levels of lodging for many cultivars in the trial and the lowest yielding varieties had the highest lodging ratings. There was moderate/high stripe rust potential at this location and fungicide was applied for stripe rust control in April at herbicide application timing and just before head emergence the end of May. Test weights averaged 59.7 lbs./bu and ranged from 57.0 to 62.6 lbs./bu. Grain protein averaged 11.3% with a range of 9.6 to 13.0%. Plant height averaged 45 inches and lodging averaged 57% but ranged from 0% to 93%. Lodging greatly influenced yields and test weights negatively and protein positively.