

## 2009 WSU EXTENSION HARD WINTER WHEAT NURSERY AT PULLMAN, WA.

Variety Name <i>*HDWH Italicized</i>	2009				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	LODGING (%)	PLANT HT	HEAD DATE
	5 YEAR AVERAGE (BU/A)	3 YEAR AVERAGE (BU/A)	2 YEAR AVERAGE (BU/A)							
<i>MDM</i>	131	138	143	<b>150</b>	61.9	9.9	5	42	164	
<b>WA008022</b>		130	141	<b>150</b>	60.5	9.9	0	46	162	
<b>ELTAN</b>	133	143	149	<b>148</b>	61.2	9.5	22	42	164	
<i>WA008097</i>				<b>141</b>	61.0	10.0	25	41	164	
<b>BAUERMEISTER</b>	123	141	143	137	61.4	10.5	55	44	164	
<b>WA008095</b>				135	62.3	11.2	35	48	161	
<i>WA008096</i>				135	61.3	10.1	10	41	164	
<b>WA008068</b>			141	134	62.4	11.4	22	50	161	
<i>WA008070</i>			133	132	<b>62.6</b>	10.2	25	48	164	
<i>IDO658</i>				132	<b>62.7</b>	10.5	12	39	161	
<b>NORWEST 553</b>		128	126	131	62.4	10.7	0	33	159	
<b>BC002-2</b>			135	129	<b>62.9</b>	11.0	0	34	156	
<b>ACS 52025</b>		138	140	127	61.2	10.6	0	37	158	
<b>ACCIPTER</b>				126	<b>62.7</b>	10.3	0	39	162	
<b>BOUNDARY</b>	132	129	134	125	61.6	10.5	0	37	161	
<b>DECLO</b>		113	118	125	62.5	10.7	0	34	161	
<i>IDO651</i>				125	61.8	10.1	32	49	159	
<b>FARNUM</b>	100	99	114	121	59.9	10.5	83	47	165	
<b>ML9W05-2506</b>			135	121	62.2	11.3	0	36	158	
<i>ML9W04-2543W</i>				121	61.5	10.2	0	40	159	
<b>NORRIS</b>				118	62.5	10.7	0	42	155	
<i>MIETI</i>				117	59.9	11.0	0	28	155	
<b>WA008098</b>				116	62.5	10.7	77	47	163	
<b>EDDY</b>	113	107	102	115	61.0	11.0	0	32	157	
<b>WHETSTONE</b>	124	118	123	115	<b>62.6</b>	11.0	0	36	155	
<b>FINLEY</b>		116	122	112	<b>63.1</b>	11.1	93	48	160	
<b>PEREGRINE</b>			125	112	62.4	10.2	15	46	161	
<i>UI DARWIN</i>		124	126	111	<b>63.1</b>	11.3	30	43	160	
<b>NUDAKOTA</b>			117	107	61.6	10.5	0	31	155	
<i>PALOMINO</i>		116	117	105	61.9	11.8	0	31	155	
<b>ESPERIA</b>				104	60.7	11.1	0	30	154	
<b>AGRIPRO PALADIN</b>	117	112	110	99	<b>62.9</b>	11.6	0	34	159	
<b>IDO683</b>				98	62.4	11.8	95	48	160	
<b>HATTON</b>	90	108	118	97	62.4	9.3	0	45	162	
<i>MOL</i>				97	61.2	12.5	0	29	155	
<b>WA008061</b>			93	86	60.9	12.4	92	50	162	
<b>C.V. %</b>	11	9	7	7	0.7	3.5	88	4	1	
<b>LSD '@ .10'</b>	7	7	8	11	0.6	0.5	24	2	1	
<b>Average</b>	118	122	126	121	61.9	10.8	20	40	160	
<b>Highest</b>	133	143	149	150	63.1	12.5	95	50	165	
<b>Lowest</b>	90	99	93	86	59.9	9.3	0	28	154	

1. Grain yield in the Pullman hard winter wheat trial averaged 121 bu/ac, 3 bu/ac higher than the 5-year average yield at this location. The Pullman nursery was located about 3 miles south east of Pullman, WA (Norm Druffel & Sons, cooperators).
2. This nursery was seeded on 3 October, 2008 following chickpeas. Seed was placed at an 85#/acre seeding rate using a double disc plot drill set on 6-inch spacing. Base fertilizer was 100#N, 20#P, 15#K, and 30#S (all per acre) applied in the fall and an additional 6#N and 20#P were applied as starter fertilizer. In the spring, an additional 44#N and 7#S were applied to the hard trial to increase protein. Seeding conditions produced good stands that overwintered well. Alpha lattice experimental designs improved variation allocation during statistical analysis and the CV by 13% compared to previously used designs.
3. Yields ranged from 86 bu/ac to 150 bu/ac, with a CV of 7%. Yield values within the LSD range of the highest yield are shown in bold and included four cultivars. Hard white variety names are designated by italicized print.
4. Test weights were good with an average of 61.9 lb/bu. Grain protein averaged 10.8% with a range of 9.3 to 12.5%. The average plant height was 40 inches.