

2009 WSU EXTENSION HARD WINTER WHEAT NURSERY AT WALLA WALLA, WA.

Variety Name <i>*HDWH Italicized</i>	5 YEAR AVERAGE (BU/A)	3 YEAR AVERAGE (BU/A)	2 YEAR AVERAGE (BU/A)	2009					
				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	LODGING (%)	PLANT HT	HEAD DATE
<i>NUDAKOTA</i>	--	--	124	134	60.9	11.6	20	34	146
NORWEST 553	--	--	128	132	60.9	12.6	3	32	148
BC002-2	--	--	125	132	62.1	12.7	0	33	147
ESPERIA	--	--		131	59.9	13.1	0	31	146
ML9W05-2506	--	--	134	127	62.1	12.5	0	34	148
WHETSTONE	--	--	129	125	61.0	12.8	17	36	146
<i>PALOMINO</i>	--	--	122	123	60.8	13.1	7	33	146
EDDY	--	--	128	121	61.8	12.6	3	35	146
AGRIPRO PALADIN	--	--	126	121	60.6	13.0	3	34	148
<i>UT DARWIN</i>	--	--	116	121	62.6	11.9	33	40	149
ACS 52025	--	--	124	121	60.1	12.2	70	35	145
<i>MOL</i>	--	--		121	62.8	14.4	7	32	146
DECLO	--	--	123	118	59.6	13.2	0	32	150
WA008068	--	--	123	117	61.8	13.0	30	42	150
ACCIPITER	--	--		117	60.6	12.5	0	36	151
<i>ML9W04-2543W</i>	--	--		117	58.4	12.1	27	39	149
NORRIS	--	--		115	62.6	11.9	3	43	144
<i>IDO658</i>	--	--		113	60.3	11.8	60	38	151
<i>WA008096</i>	--	--		112	58.5	12.0	3	39	155
BOUNDARY	--	--	123	110	60.1	12.4	23	36	150
BAUERMEISTER	--	--	113	109	58.4	12.8	87	38	154
PEREGRINE	--	--	112	105	61.8	12.5	30	42	149
ELTAN	--	--	112	104	57.7	12.8	77	37	154
<i>MDM</i>	--	--	109	104	58.8	12.6	73	39	155
<i>WA008097</i>	--	--		104	58.5	12.3	53	37	154
<i>MIETI</i>	--	--		104	59.4	13.8	3	30	147
<i>WA008070</i>	--	--	107	101	61.1	12.4	50	44	155
WA008098	--	--		94	60.1	13.1	73	40	154
HATTON	--	--	97	90	63.0	12.0	37	45	151
<i>IDO651</i>	--	--		90	59.7	13.3	93	46	149
FARNUM	--	--	93	88	58.3	13.8	73	42	155
WA008022	--	--	96	85	58.8	12.8	87	40	151
WA008095	--	--		83	59.5	13.5	88	43	152
IDO683	--	--		82	62.0	12.9	87	38	148
WA008061	--	--	81	77	60.9	13.9	87	43	151
FINLEY	--	--	80	71	60.4	13.0	83	41	149
C.V. %	--	--	8	7	1.2	3.5	39	3	1
LSD '@ .10'	--	--	8	10	1.0	1.0	20	2	1
Average	--	--	114	109	60.4	12.8	39	38	150
Highest	--	--	134	134	63.0	14.4	93	46	155
Lowest	--	--	80	71	57.7	11.6	0	30	144

1. Grain yield in the Walla Walla hard winter wheat trial averaged 109 bu/ac, 5 bu/ac less than the 2-year average. The Walla Walla nursery was located about 8 miles southwest of Waitsburg, WA about midway between Waitsburg and Walla Walla (Tom and Jason Beechinor, cooperators).
2. This nursery was seeded on 6 October, 2008 following summer fallow. Seed was placed at an 85#/acre seeding rate using a double disc plot drill set on 6-inch spacing. Base fertilizer applied in the fall was 120#N, 15#P, and 15#S. Based on a spring soil test, 195#N and 29#S were applied in the spring. Seeding conditions produced good stands that overwintered well including cold sensitive varieties that were not affected by winter conditions. Alpha lattice experimental designs improved variation allocation during statistical analysis and the CV by 16% compared to previously used designs.
3. Yields ranged from 71 bu/ac to 134 bu/ac, with a CV of 7%. Yield values within the LSD range of the highest yield are shown in bold and included six varieties. Hard white varieties are listed in italicized print.
4. Test weights were good with an average of 60.4 lb/bu. Grain protein averaged 12.8% with a range of 11.6 to 14.4%. The average plant height was 38 inches, and lodging was high for many varieties.