

2009 WSU EXTENSION HARD WINTER WHEAT NURSERY AT HORSE HEAVEN, 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>NUDAKOTA</i>			19	17	59.1	14.8	0	17	145
<i>MDM</i>	34	30	19	16	59.4	14.6	0	19	151
BC002-2			18	16	59.6	17.0	0	18	145
NORRIS				16	61.3	14.9	0	20	144
FINLEY		27	18	15	62.0	15.5	0	18	148
AGRIPRO PALADIN	30	22	16	15	61.8	15.5	0	16	146
WHETSTONE	31	24	17	15	59.6	15.6	0	20	143
<i>PALOMINO</i>		23	18	15	59.2	16.5	0	17	146
ACS 52025		25	17	15	61.7	14.9	0	20	146
ML9W05-2506			18	15	59.5	16.1	0	19	147
<i>IDO651</i>				15	57.7	16.1	0	23	146
PEREGRINE			20	15	60.4	15.8	0	19	146
ESPERIA				15	58.8	15.9	0	19	144
EDDY	31	23	16	14	62.1	16.1	0	18	146
<i>IDO658</i>				14	62.0	15.2	0	21	146
IDO683				14	63.6	15.7	0	19	147
ELTAN	35	30	18	13	59.2	15.3	0	18	150
BOUNDARY	33	25	16	13	60.1	15.6	0	17	148
FARNUM	34	27	19	13	59.6	15.8	0	17	151
NORWEST 553		26	16	13	62.2	16.1	0	18	148
<i>UT DARWIN</i>		23	16	13	62.8	14.6	0	21	144
WA008068			17	13	60.8	16.8	0	17	149
WA008061			16	13	62.6	16.4	0	19	148
ACCIPITER				13	58.2	16.9	0	18	148
HATTON	29	24	17	12	63.2	15.5	0	19	151
BAUERMEISTER	33	28	17	12	58.8	15.5	0	18	151
<i>WA008070</i>			17	12	61.8	15.8	0	17	151
WA008095				12	59.9	16.1	0	18	149
<i>WA008097</i>				12	58.5	15.8	0	17	150
WA008098				12	59.7	16.1	0	19	150
WA008022		26	17	11	61.0	14.9	0	18	151
<i>WA008096</i>				11	58.1	15.7	0	17	150
<i>ML9W04-2543W</i>				11	59.7	15.7	0	18	149
DECLO		20	14	10	60.7	16.6	0	17	147
MIETI				10	--	14.4	0	21	149
MOL				10	61.5	15.6	0	18	147
C.V. %	12	14	16	12		3.0	--	8	1
LSD '@ .10'	2	2	2	2		0.7	--	2	1
Average	32	25	17	13	60.5	15.7	0	18	148
Highest	35	30	20	17	63.6	17.0	0	23	151
Lowest	29	20	14	10	57.7	14.4	0	16	143

***Test Weight data are from bulked samples across replications.**

1. Grain yield in the Horse Heaven hard winter wheat trial averaged 13 bu/ac and was only 42% of the 5-year average for this location. The Horse Heaven nursery was located about 5 miles east of Prosser, WA (D. Roseberry farm).
2. This nursery was seeded on 8 October, 2008 following summer fallow. Seed was placed at a 45#/acre seeding rate using a double disc plot drill set on 6-inch spacing. Base fertilizer was 40#N. Fall seeding conditions were dry and occasional poor emergence caused some gaps in individual plots. When appropriate, gaps were subtracted from the plot areas to maintain equivalent comparisons. Alpha lattice experimental designs improved variation allocation during statistical analysis and the CV by 14% compared to previously used designs.
3. Yields ranged from 10 bu/ac to 17 bu/ac, with a CV of 12%. All yield values within the LSD range of the highest yield are shown in bold. Hard white variety names are designated by italicized print.
4. Test weights were good with an average of 60.5 lb/bu. There was favorable spring precipitation and temperatures that supported a good grain filling period and high test weights.
5. Grain protein averaged 15.7% with a range of 14.4 to 17.0%. High protein could have been influenced by the low yields that reflected dry conditions during much of the growing season. Low yield and dry conditions are also related to 18 inch average plant height.