

2009 WSU EXTENSION HARD WINTER WHEAT NURSERY AT ST. ANDREWS, 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
ACCIPITER				38	60.0	10.4	0	27	157
WA008095				34	59.4	11.4	0	28	156
NORWEST 553		27	31	32	61.1	11.1	0	24	154
PEREGRINE			38	31	60.8	9.7	0	35	153
FARNUM	54	43	42	30	57.5	10.5	0	33	160
WA008068			37	30	60.6	10.1	0	35	154
BAUERMEISTER	53	40	41	29	58.8	10.1	0	30	158
ML9W05-2506			32	29	60.9	11.0	0	25	154
<i>WA008097</i>				29	59.1	10.4	0	27	159
WA008061			38	28	60.2	11.4	0	32	155
BC002-2			35	28	60.5	11.6	0	27	151
<i>WA008070</i>			36	28	59.8	10.7	0	31	159
NUDAKOTA			36	28	60.7	11.6	0	26	150
<i>IDO658</i>				28	60.8	10.9	0	31	154
<i>ML9W04-2543W</i>				28	60.0	10.8	0	29	154
WA008098				28	58.9	11.1	0	29	159
ELTAN	59	41	41	27	58.2	9.7	0	31	158
<i>IDO651</i>				27	58.9	9.6	0	39	151
HATTON	45	36	33	26	62.6	10.3	0	29	157
DECLO		25	25	26	61.0	11.4	0	25	154
ACS 52025		39	35	26	61.0	10.5	0	30	151
NORRIS				26	61.5	10.8	0	28	151
FINLEY		40	36	25	61.5	10.6	0	32	153
BOUNDARY	58	43	43	25	59.4	10.4	0	27	154
WHETSTONE	45	34	32	25	61.4	11.3	0	27	150
WA008022		37	33	25	58.6	10.6	0	28	156
<i>UT DARWIN</i>		31	30	24	61.9	10.5	0	34	154
<i>PALOMINO</i>		31	30	24	60.9	12.4	0	26	151
IDO683				24	62.1	11.2	0	29	154
<i>MDM</i>	56	40	41	22	59.7	9.5	0	30	158
AGRIPRO PALADIN	43	32	31	21	61.5	12.8	0	27	155
<i>MOL</i>				21	60.1	15.5	0	19	153
<i>WA008096</i>				20	57.8	10.3	0	27	159
EDDY	47	30	27	19	59.9	12.9	0	26	153
ESPERIA				19	59.9	12.7	0	25	150
<i>MIETI</i>				18	58.3	13.8	0	18	153
C.V. %	19	17	17	12	0.9	5.6	--	6	1
LSD '@ .10'	4	4	5	4	0.8	0.9	--	3	1
Average	51	36	35	26	60.2	11.1	0	29	155
Highest	59	43	43	38	62.6	15.5	0	39	160
Lowest	43	25	25	18	57.5	9.5	0	18	150

1. Grain yield in the St. Andrews hard winter wheat trial averaged 26 bu/ac, 25 bu/ac less than the 5-year average. In the week prior to harvest, a hail storm struck the area and caused significant crop loss. The study site incurred hail loss that is hard to quantify, but was probably greater than 20%. Reported field losses from hail in the area were 20% to 50%. There is also the strong possibility that cultivars were impacted by hail differently based on head type, orientation, size, awns, etc. The St. Andrews nursery was located about 7 miles west of Coulee City, WA (Larry Tanneberg, cooperator).
2. This nursery was seeded on 5 September, 2008 following summer fallow. Seed was placed at a 45#/acre seeding rate using a deep furrow plot drill with split packer openers set on 15-inch spacing. Base fertilizer was 65#N and 8#S. Based on spring soil test results, there was no additional nitrogen fertilizer needed according to WSU fertilizer guidelines. Growing conditions 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 13% compared to previously used designs.
3. Yields ranged from 18 bu/ac to 38 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 60.2 lb/bu. Grain protein averaged 11.1% with a range of 9.5 to 15.5%. Average plant height was 29 inches.