

## 2009 WSU EXTENSION HARD WINTER WHEAT NURSERY AT ALMIRA, 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)							
ACS 52025		108	103	<b>114</b>	61.2	9.7	0	34	151	
ELTAN	103	97	98	<b>109</b>	59.7	10.0	63	32	158	
BOUNDARY	109	105	93	105	61.1	10.7	0	32	156	
<i>ML9W04-2543W</i>				104	60.5	9.5	0	36	154	
BAUERMEISTER	102	95	94	103	59.9	10.7	90	33	158	
DECLO		89	88	103	62.6	10.3	0	29	154	
BC002-2			95	103	62.3	11.3	0	29	151	
NORRIS				102	62.3	10.3	0	34	151	
<i>IDO658</i>				102	61.4	9.5	63	35	155	
NORWEST 553		97	84	101	61.0	10.4	0	30	153	
WA008068			87	101	62.5	10.3	0	38	155	
<i>NUDAKOTA</i>			92	100	61.2	9.6	0	31	150	
<i>WA008097</i>				100	60.4	9.6	60	31	158	
HATTON	80	94	91	99	<b>64.0</b>	9.9	0	36	157	
<i>MDM</i>	106	99	96	99	60.7	9.9	53	31	158	
ACCIPITER				99	61.1	10.3	0	30	158	
WA008095				99	61.7	10.5	17	29	156	
WA008098				99	60.9	10.1	80	38	158	
PEREGRINE			87	98	62.0	9.9	0	36	156	
<i>WA008096</i>				98	59.6	9.8	37	34	159	
EDDY	100	99	90	97	61.8	10.2	0	31	152	
WA008022		87	89	97	60.2	10.1	0	34	156	
ESPERIA				97	60.1	11.1	0	29	150	
FARNUM	93	86	88	95	60.1	10.8	77	35	160	
<i>PALOMINO</i>		97	86	95	61.2	10.9	0	30	150	
AGRIPRO PALADIN	98	93	84	93	61.5	11.2	0	30	154	
ML9W05-2506			82	92	61.8	11.2	0	30	153	
<i>WA008070</i>			82	92	61.4	10.8	3	34	159	
<i>MIETI</i>				92	60.6	10.2	0	29	151	
FINLEY		87	84	89	61.9	10.8	43	36	156	
IDO683				89	63.1	10.6	80	32	154	
WHETSTONE	98	94	80	88	61.2	10.8	0	28	149	
WA008061			81	88	61.7	10.8	80	40	157	
<i>IDO651</i>				87	59.9	10.4	10	43	154	
<i>UI DARWIN</i>		84	81	86	62.8	10.7	37	35	154	
<i>MOL</i>				67	61.1	12.5	0	26	151	
C.V. %	12	12	9	7	0.8	6.0	63	13	1	
LSD '@ .10'	6	8	8	9	0.7	0.9	19	6	1	
Average	99	94	89	97	61.3	10.4	22	33	155	
Highest	109	108	103	114	64.0	12.5	90	43	160	
Lowest	80	84	80	67	59.6	9.5	0	26	149	

1. Grain yield in the Almira hard winter wheat trial averaged 97 bu/ac, just 2 bu/ac less than the 5-year average at this site. The Almira nursery was located about 10 miles north of Almira, WA (Dan McKay, cooperator).
2. This nursery was seeded on 8 September, 2008 following summer fallow. Seed was placed at an 85#/acre seeding rate using a hoe plot drill set on 9-inch spacing. Base fertilizer was 80#N, and 10#S applied in the fall. A spring soil sample showed fertility levels high enough for hard wheat and no additional fertilizer was applied. Seeding conditions produced good stands that overwintered well. Alpha lattice experimental designs improved variation allocation during statistical analysis and the CV by 75% compared to previously used designs.
3. Yields ranged from 67 bu/ac to 114 bu/ac, with a CV of 7%. Yield values within the LSD range of the highest yield are shown in bold and included three cultivars. Hard white variety names are designated by italicized print.
4. Test weights were good with an average of 61.3 lb/bu. Grain protein was not as high as desired for hard wheat and no higher than in the soft trial. Protein averaged 10.4% with a range of 9.5 to 12.5%. The average plant height was 33 inches. Several cultivars were highly lodged before harvest.