

## 2010 WSU EXTENSION HARD WINTER WHEAT NURSERY AT REARDAN, WA.

Variety Name <i>*HDWH Italicized</i>	5 YEAR AVERAGE (BU/A)	3 YEAR AVERAGE (BU/A)	2 YEAR AVERAGE (BU/A)	2010					
				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	LODGING (%)	PLANT HT	HEAD DATE
WA008120	--			156	60.6	10.1	0	42	169
WA008119	--			154	60.2	10.5	0	41	169
BOUNDARY	--	108	118	149	61.9	11.5	0	37	167
<i>MDM</i>	--	109	120	149	61.4	9.7	2	40	171
ACCIPITER	--		106	139	63.2	10.5	0	40	166
ELTAN(SWW check)	--	96	106	138	60.9	10.5	0	40	170
DECLO	--	101	109	138	62.6	11.3	0	35	165
<i>WA008096</i>	--		108	138	59.9	10.7	0	43	170
<i>UI SILVER</i>	--		106	137	62.7	10.9	7	40	166
<i>WA008097</i>	--		111	136	60.6	10.0	3	40	169
PEREGRINE	--	96	105	134	62.7	10.9	7	49	159
BAU-RT1	--			134	60.9	11.3	3	43	170
BAUERMEISTER	--	96	106	133	61.0	10.8	20	41	170
<i>OR2080229H</i>	--			129	63.1	10.9	0	37	169
EDDY	--	91	102	126	63.5	11.9	0	36	161
WA008095	--		100	123	60.6	11.8	10	50	167
WB-RIMROCK	--	94	102	122	62.5	10.9	0	35	161
AGRIPRO PALADIN	--	88	96	121	63.1	12.2	0	36	164
FINLEY	--	88	96	120	62.8	11.8	47	50	160
WA008070	--	90	99	118	61.7	10.6	0	50	170
<i>OR2080156H</i>	--			118	61.6	12.1	0	37	168
NORWEST 553	--	91	98	117	63.0	12.3	0	31	166
HATTON	--	86	94	114	63.1	11.3	7	48	166
FARNUM	--	89	93	114	58.7	12.1	3	53	171
<i>UICF GRACE</i>	--		90	109	61.6	11.4	17	48	162
WA008118	--			107	62.2	12.6	5	43	161
WHETSTONE	--	83	92	102	63.4	13.0	0	34	159
WA008121	--			99	61.6	13.1	33	48	161
ESPERIA	--		86	96	61.9	12.8	0	31	159
IDO683	--		77	89	62.1	13.6	37	49	161
C.V. %	--	9	8	6	1.0	4.1	171	4	1
LSD '@ .10'	--	6	8	11	0.8	0.6	16	2	1
Average	--	94	101	125	61.8	11.4	7	42	166
Highest	--	109	120	156	63.5	13.6	47	53	171
Lowest	--	83	77	89	58.7	9.7	0	31	159

## Reardan Hard Winter Wheat – Preliminary Data

1. Grain yield in the Reardan hard winter wheat trial averaged 125 bushels/acre, 31 bushels/acre higher than the 3-year average for this location. The Pullman nursery was located about seven miles west of Reardan, WA (Hal Johnson, cooperator).
2. This nursery was seeded on 21 September, 2009 following fallow. Seed was placed at an 85#/acre seeding rate using a double-disc plot drill set on 6-inch spacing. Base fertilizer was 85#N/acre and a spring soil test showed 259#N/acre available in the top 4-foot sample. Based on the soil test N levels and the projected yield and protein levels for hard winter wheat, the available nitrogen at this location should have been adequate for target hard wheat protein, but yields far exceeded projected values. Fall seeding conditions, emergence, and overwinter conditions were good.
3. Yields ranged from 89 bu/ac to 156 bu/acre. All yield values within the 10% LSD range of the highest yield are shown in bold and 4 of the 30 trial entries are in the top group. Boundary was the highest yielding named variety in the trial. Stripe rust was minimal at this location. The lattice RCBD experimental design improved variation allocation during statistical analysis and the CV by 69% for yield.
4. Test weights were good and averaged 61.8 lb/bu with a range from 58.7 to 63.5 lb/bu.
5. Grain protein was low due to high yields and averaged 11.4% with a range of 9.7 to 13.6%. Plant height averaged 42 inches. There was some lodging.