

2010 WSU EXTENSION HARD WINTER WHEAT NURSERY AT ST. ANDREWS, WA.

Variety Name <i>*HDWH Italicized</i>	5 YEAR	3 YEAR	2 YEAR	2010					
	AVERAGE (BU/A)	AVERAGE (BU/A)	AVERAGE (BU/A)	YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	LODGING (%)	PLANT HT	HEAD DATE
WA008119	--			71	57.7	12.2	3	34	165
WA008120	--			66	57.2	12.3	0	34	166
<i>UT SILVER</i>	--		46	64	60.8	11.3	10	36	161
BOUNDARY	--	49	43	61	58.3	12.0	11	34	165
BAUERMEISTER	--	47	44	60	57.6	11.9	10	37	168
PEREGRINE	--	45	45	60	59.9	11.9	7	42	159
FARNUM	--	48	44	59	57.0	12.5	17	44	167
HATTON	--	41	42	57	62.2	11.9	7	40	160
ELTAN(SWW check)	--	45	41	55	57.7	11.2	3	33	167
<i>WA008096</i>	--		38	55	56.6	11.9	5	34	168
FINLEY	--	42	39	54	61.0	12.3	10	43	159
<i>MDM</i>	--	45	38	54	57.8	11.7	8	36	167
IDO683	--		39	54	61.2	13.2	23	40	159
WB-RIMROCK	--	41	39	52	59.2	12.6	2	33	162
WA008118	--			52	58.3	13.3	10	38	161
BAU-RT1	--			52	57.6	12.2	10	34	167
WA008070	--	41	39	51	58.7	12.8	3	44	168
ACCIPITER	--		44	51	59.9	12.4	0	34	160
WA008095	--		43	51	59.5	12.8	10	42	160
WA008121	--			51	59.9	12.6	10	40	160
<i>UICF GRACE</i>	--		38	48	57.7	13.0	10	44	161
<i>WA008097</i>	--		38	48	57.1	12.2	2	34	167
EDDY	--	34	33	47	59.6	13.4	0	30	161
AGRIPRO PALADIN	--	34	30	39	61.3	13.7	0	30	162
WHETSTONE	--	34	32	39	60.2	13.4	0	31	160
ESPERIA	--		28	37	58.3	13.6	0	26	160
<i>OR2080229H</i>	--			36	59.2	12.1	7	32	166
DECLO	--	29	30	35	60.0	13.8	0	30	163
<i>OR2080156H</i>	--			26	57.1	14.1	0	31	166
NORWEST 553	--	27	26	21	58.8	14.1	0	27	166
C.V. %	--	16	16	17	1.2	3.8	85	5	1
LSD '@ .10'	--	5	6	11	0.9	0.7	7	2	2
Average	--	40	38	50	58.9	12.6	6	36	163
Highest	--	49	46	71	62.2	14.1	23	44	168
Lowest	--	27	26	21	56.6	11.2	0	26	159

St. Andrews Hard Winter Wheat – Preliminary Data

1. Grain yield in the St. Andrews hard winter wheat trial averaged 50 bushels/acre, 10 bushels/acre higher than the 3-year average for this location. The St. Andrews nursery was located about seven miles west of Coulee City, WA (Larry Tannenberg, cooperator).
2. This nursery was seeded on 31 August, 2009 following summer fallow. Seed was placed at a 45#/acre seeding rate using a deep furrow plot drill set on 15-inch spacing. Base fertilizer was 40#N/acre and a spring soil test analysis showed 186#N/acre in a four-foot sample. Based on average yield levels, this should be adequate to produce hard protein levels. Fall seeding conditions were good, and emergence and stand establishment were adequate.
3. Yields ranged from 21 bu/ac to 71 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. UI Silver, a new hard white from the University of Idaho, was the highest yielding named variety in the trial. Stripe rust was moderate at this location with low impact. The lattice RCBD experimental design improved variation allocation during statistical analysis and the CV by 27% for yield. For yield the CV was 17%, but the F-test was highly significant and there is a good separation of cultivars with the LSD showing value for the trial.
4. Test weights were okay with an average of 58.9 lb/bu and ranged from 56.6 to 62.2 lb/bu.
5. Grain protein averaged 12.6% with a range of 11.2 to 14.1%. Plant height averaged 35 inches.