

2010 WSU EXTENSION HARD WINTER WHEAT NURSERY AT CONNELL, 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	--			63	61.6	11.7	0	36	144
<i>MDM</i>	--	46	55	61	62.5	10.8	0	36	144
<i>WA008096</i>	--		53	61	61.5	11.0	0	35	144
WA008119	--			60	61.1	11.4	0	34	144
ELTAN (SWW check)	--	49	53	58	62.0	11.1	0	35	144
BOUNDARY	--	45	48	58	61.8	12.2	0	32	141
FARNUM	--	43	48	58	61.3	11.6	0	37	145
BAUERMEISTER	--	47	53	57	62.1	11.3	0	36	143
WA008070	--	45	48	56	62.7	11.2	0	38	146
WA008095	--		47	55	62.0	12.3	0	36	141
BAU-RT1	--			54	61.9	11.6	0	35	144
FINLEY	--	43	47	52	63.2	12.3	0	35	141
<i>WA008097</i>	--		47	51	61.4	10.1	0	35	144
<i>UI SILVER</i>	--		41	51	63.6	11.8	0	33	141
ACCIPITER	--		45	50	62.4	12.1	0	32	141
HATTON	--	45	48	46	63.8	11.8	0	35	141
EDDY	--	40	41	45	63.2	12.8	0	31	140
PEREGRINE	--	39	42	45	62.9	12.5	0	36	140
IDO683	--		37	44	63.8	13.7	0	31	140
WA008121	--			41	62.7	13.0	0	37	138
<i>UICF GRACE</i>	--		39	40	62.2	12.5	0	41	139
WHETSTONE	--	39	37	39	62.5	13.4	0	31	139
<i>OR2080229H</i>	--			39	62.9	12.2	0	34	145
<i>OR2080156H</i>	--			37	61.4	13.3	0	30	144
WB-RIMROCK	--	35	35	35	61.9	12.4	0	34	140
NORWEST 553	--	41	37	34	62.4	13.5	0	30	144
WA008118	--			33	62.7	13.1	0	32	139
ESPERIA	--			-Mouse damage destroyed plots-					
DECLO	--			-Insufficient Plant Stand-					
AGRIPRO PALADIN	--			-Insufficient Plant Stand-					
C.V. %	--	14	11	9	0.6	4.4	--	4	0
LSD '@ .10'	--	4	5	6	0.8	0.7	--	2	1
Average	--	41	42	45	62.2	12.2	0	34	142
Highest	--	49	55	63	63.8	13.7	0	41	146
Lowest	--	35	35	33	61.1	10.1	0	30	138

Connell Hard Winter Wheat – Preliminary Data

1. Grain yield in the Connell hard winter wheat trial averaged 45 bushels/acre, 4 bushels/acre higher than the 3-year average. Higher yields were enabled by favorable spring precipitation and temperatures. The Connell nursery was located about six miles east of Connell, WA (D. Bauermeister farm).
2. This nursery was seeded on 2 September, 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 60#N and a spring soil test analysis showed an additional 151#N available that should have been more than adequate for hard protein levels at projected yield levels. Fall seeding conditions were dry, but emergence and stand establishment were adequate.
3. Yields ranged from 33 bu/ac to 63 bu/ac. All yield values within the 10% LSD range of the highest yield are shown in bold and this included 7 of the 30 entries. Stripe rust was epidemic, but this location incurred less impact from strip rust than most locations. The lattice RCBD experimental design improved variation allocation during statistical analysis and the CV by 28% for yield.
4. Test weights were very good with an average of 62.2 lb/bu. High test weights also show that stripe rust did not have a large impact and moisture conditions were favorable.
5. Grain protein averaged 12.2% with a range of 10.1 to 13.7% and plant height averaged 34 inches. Protein was lower than desired in most cultivars and reflects the good grain filling conditions that can lower grain protein.