

2010 WSU EXTENSION HARD WINTER WHEAT NURSERY AT HORSE HEAVEN, 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				44	60.4	10.3	0	26	150
ELTAN (SWW check)	35	26	28	42	61.8	11.2	0	26	150
BAUERMEISTER	33	25	26	40	61.7	11.9	0	27	150
WA008120				40	60.5	10.9	0	24	152
<i>WA008096</i>			25	38	61.2	10.7	0	25	151
BAU-RT1				38	61.8	11.7	0	25	150
FARNUM	34	25	25	37	60.4	11.7	0	29	152
<i>WA008097</i>			24	37	60.9	10.8	0	25	152
FINLEY	32	24	25	36	63.2	11.6	0	26	147
PEREGRINE		25	26	36	62.6	10.5	0	29	148
WA008070		23	24	36	61.6	11.6	0	26	154
<i>OR2080229H</i>				36	63.0	11.6	0	25	150
MDM	32	25	26	35	61.9	11.2	0	26	150
ACCIPITER			24	35	62.3	11.1	0	23	149
<i>UI SILVER</i>			25	35	63.2	11.1	0	24	147
<i>OR2080156H</i>				35	61.3	12.1	0	22	149
HATTON	30	22	23	34	63.2	11.3	0	25	149
WB-RIMROCK		23	25	34	61.9	11.9	0	23	147
<i>UICF GRACE</i>			25	34	62.0	11.5	0	26	147
WA008118				34	62.7	12.0	0	22	148
BOUNDARY	32	22	23	33	61.0	11.7	0	20	152
NORWEST 553	31	21	23	33	61.8	11.9	0	23	149
AGRIPRO PALADIN	28	22	24	33	63.1	12.2	0	20	149
WA008095			23	33	61.6	11.6	0	24	148
IDO683			24	33	63.6	12.3	0	23	149
WA008121				32	62.7	13.0	0	24	146
WHETSTONE	29	22	23	31	62.7	12.3	0	21	148
EDDY	29	21	22	30	63.0	12.8	0	19	149
DECLO		19	20	30	63.0	13.5	0	23	148
ESPERIA			20	25	61.6	13.7	0	19	150
C.V. %	11	12	11	10	0.6	5.3	--	7	1
LSD '@ .10'	2	2	3	5	0.9	0.9	--	2	2
Average	31	23	24	35	62.1	11.7	0	24	149
Highest	35	26	28	44	63.6	13.7	0	29	154
Lowest	28	19	20	25	60.4	10.3	0	19	146

Horse Heaven Hard Winter Wheat – Preliminary Data

1. Grain yield in the Horse Heaven hard winter wheat trial averaged 35 bushels/acre a large increase over the 13 bushels/acre average in 2009. Higher yields were enabled by favorable spring precipitation and temperatures. The Horse Heaven nursery was located about five miles east of Prosser, WA (D. Roseberry farm).
2. This nursery was seeded on 22 October, 2009 following summer fallow. Seed was placed at a 45#/acre seeding rate using a double disc plot set on 6-inch spacing. Base fertilizer was 40#N. A spring soil sample indicated that there was adequate available N to give required protein levels for hard wheat with a typical yield level. Fall seeding conditions were dry, but emergence and stand establishment were adequate. The lattice RCBD experimental design improved variation allocation during statistical analysis and the CV by 4%.
3. Yields ranged from 25 bu/ac to 44 bu/ac. All yield values within the 10% LSD range of the highest yield are shown in bold. Stripe rust was epidemic, but this location incurred less impact from strip rust than most locations.
4. Test weights were very good with an average of 62.1 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 11.7% with a range of 10.3 to 13.7% and plant height averaged 24 inches. Protein was lower than desired in most cultivars and reflects the good grain filling conditions that can lower grain protein.