

2010 WSU EXTENSION HARD WINTER WHEAT NURSERY AT PULLMAN, WA.

Variety Name <small>*HDWH Italicized</small>	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
ESPERIA			119	135	59.6	12.8	7	37	164
<i>UT SILVER</i>			131	131	58.5	11.8	65	48	171
<i>OR2080229H</i>				131	58.5	11.7	0	43	173
WA008119				125	52.4	12.6	17	46	173
<i>OR2080156H</i>				123	57.6	12.9	0	43	172
NORWEST 553	130	124	126	122	58.0	13.4	0	36	170
BOUNDARY	129	129	123	121	57.5	12.3	30	45	171
WA008120				119	52.2	12.8	23	46	172
WHETSTONE	119	119	113	111	56.3	13.3	2	42	163
<i>UICF GRACE</i>			116	108	58.0	13.1	75	56	170
ACCIPITER			116	106	57.1	12.5	2	46	170
PEREGRINE		117	107	102	58.5	12.7	7	53	169
WA008070		123	117	102	58.9	13.0	53	54	174
WA008121				102	59.2	14.1	47	55	170
FINLEY	111	115	107	101	56.2	13.2	87	53	171
ELTAN(SWW check)	133	133	124	99	52.6	12.6	58	45	173
<i>WA008097</i>			120	99	53.8	12.7	65	46	173
WA008095			117	98	57.7	13.6	87	55	171
WA008118				98	56.9	14.5	68	50	167
<i>MDM</i>	129	128	123	96	53.5	12.7	58	46	174
BAU-RT1				95	53.8	13.4	68	48	174
BAUERMEISTER	126	127	115	94	53.0	13.6	52	46	174
WB-RIMROCK		124	110	93	53.9	12.4	0	43	168
EDDY	109	99	103	92	58.5	12.7	10	43	169
<i>WA008096</i>			113	92	51.6	13.8	72	46	173
FARNUM	105	106	105	90	57.0	13.4	85	53	174
IDO683			92	85	61.3	14.0	90	50	171
AGRIPRO PALADIN	110	101	91	83	54.4	13.3	0	41	171
DECLO		102	97	70	52.0	13.9	0	38	170
HATTON	99	101	82	66	58.6	13.5	45	53	173
C.V. %	11	9	9	12	3.3	4.6	49	3	1
LSD '@ .10'	7	8	10	17	4.4	0.8	26	2	1
Average	118	116	112	103	56.2	13.1	39	47	171
Highest	133	133	131	135	61.3	14.5	90	56	174
Lowest	99	99	82	66	51.6	11.7	0	36	163

Pullman Hard Winter Wheat – Preliminary Data

1. Grain yield in the Pullman hard winter wheat trial averaged 103 bushels/acre, 15 bushels/acre lower than the 5-year average for this location. The Pullman nursery was located about four miles southeast of Pullman, WA (Norm Druffel and Sons, cooperator).
2. This nursery was seeded on 2 October, 2009 following chickpea. Seed was placed at an 85#/acre seeding rate using a double-disc plot drill set on 6-inch spacing. Base fertilizer was 132#N/acre and a spring soil test showed 252#N/acre available in the top 4-foot sample. An additional 114#N/acre was applied in the spring to this hard trail based on the soil test N levels and the projected yield and protein levels for hard winter wheat. Fall seeding conditions were dry and emergence occurred after precipitation. Crop stands overwintered well.
3. Yields ranged from 66 bu/ac to 135 bu/acre. All yield values within the 10% LSD range of the highest yield are shown in bold and 8 of the 30 trial entries are in the top group. Esperia was the highest yielding named variety in the trial. Stripe rust was moderate at this location with some impact on susceptible cultivars. The lattice RCBD experimental design improved variation allocation during statistical analysis and the CV by 8% for yield.
4. Test weights were variable and averaged 56.2 lb/bu with a range from 51.6 to 61.3 lb/bu. Yield, test weight and protein were affected by stripe rust and lodging.
5. Grain protein was good and averaged 13.1% with a range of 11.7 to 14.5%. Plant height averaged 39 inches. Most cultivars lodged and ranged from 0 to 90% in severity.