

## 2009 WSU EXTENSION IRR. ONLY HARD SPRING WHEAT NURSERY AT MOSES LAKE, WA.

Variety Name *HDWH Italicized	5 YEAR AVERAGE (BU/A)	3 YEAR AVERAGE (BU/A)	2 YEAR AVERAGE (BU/A)	2009					
				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	LODGING (%)	PLANT HT	HEAD DATE
<i>WA008078</i>	--	--	--	<b>134</b>	62.8	13.8	20	37	155
<i>OTIS</i>	--	--	--	<b>131</b>	63.3	13.3	17	39	157
<i>CLEAR WHITE</i>	--	--	--	<b>130</b>	62.8	12.3	0	28	153
LASSIK	--	--	--	<b>130</b>	62.9	12.9	7	30	156
<i>RSI0348W</i>	--	--	--	<b>129</b>	<b>63.6</b>	13.1	0	31	154
OR4990114	--	--	--	<b>126</b>	62.3	13.5	0	33	153
<i>BZ903-445WP</i>	--	--	--	<b>125</b>	61.0	14.1	0	34	155
<i>BLANCA GRANDE</i>	--	--	--	<b>124</b>	<b>64.4</b>	13.1	7	30	153
<i>WA008100</i>	--	--	--	<b>124</b>	<b>63.7</b>	12.4	62	37	159
HANK	--	--	--	123	60.9	14.8	13	33	154
CABERNET	--	--	--	123	<b>63.6</b>	13.3	0	28	156
BULLSEYE	--	--	--	123	<b>64.4</b>	13.6	27	32	156
WHIT (SWS check)	--	--	--	122	61.8	12.3	37	33	154
EXPRESSO	--	--	--	121	63.3	14.7	0	31	157
<i>WA008079</i>	--	--	--	121	62.1	12.6	43	38	156
WA008074	--	--	--	121	63.1	13.8	23	34	153
WA008072	--	--	--	121	62.6	13.9	20	33	155
SOLANO	--	--	--	120	63.1	15.1	0	27	156
KELSE	--	--	--	119	62.5	15.4	0	37	156
NPBHR70	--	--	--	119	61.7	14.2	2	33	154
JEDD	--	--	--	118	<b>64.1</b>	14.1	0	30	154
VOLT	--	--	--	118	<b>64.2</b>	13.9	7	33	158
LARIAT	--	--	--	118	60.9	13.0	0	28	155
WA008076	--	--	--	118	63.2	14.6	13	42	152
JEFFERSON	--	--	--	117	62.5	14.4	22	34	154
BUCK PRONTO	--	--	--	117	62.3	15.0	50	33	153
RSI50603	--	--	--	117	63.4	14.3	0	30	155
WA008075	--	--	--	117	63.3	14.7	0	36	153
TARA 2002	--	--	--	116	62.1	14.6	3	35	153
UI WINCHESTER	--	--	--	115	62.5	14.1	47	32	155
<i>WA008101</i>	--	--	--	112	61.5	12.5	83	36	154
WESTBRED 926	--	--	--	110	61.6	14.8	2	32	152
SCARLET	--	--	--	109	60.6	14.4	58	36	158
<i>MACON</i>	--	--	--	106	61.3	12.5	53	31	153
WA008027	--	--	--	102	62.1	15.5	5	36	156
HOLLIS	--	--	--	93	62.7	15.3	20	42	156
C.V. %	--	--	--	7	1.1	4.4	109	3	1
LSD '@ .10'	--	--	--	11	0.9	0.8	26	2	2
Average	--	--	--	119	62.6	13.9	18	33	155
Highest	--	--	--	134	64.4	15.5	83	42	159
Lowest	--	--	--	93	60.6	12.3	0	27	152

1. Grain yield in the Moses Lake irrigated hard spring wheat trial averaged 119 bu/ac. The Moses Lake irrigated spring nursery was located about 6 miles east of Othello, WA on the WSU Othello Experimental Field Station and about 15 miles south of the Moses Lake winter wheat site.
2. This nursery was seeded on 27 March, 2009 following summer fallow. Seed was placed at a 90#/acre seeding rate using a double disc plot drill set on 6-inch spacing. Base fertilizer was 220#N and an additional 50#N and 7#S was applied for higher hard wheat fertility. Spring seeding conditions were adequate and spring growing conditions created good yield potential. The alpha lattice experimental designs improved variation allocation during statistical analysis and the CV by 16% compared to an RCBD design.
3. Yields ranged from 93 bu/ac to 134 bu/ac, with a CV of 7%. Yield values within the LSD range of the highest yield are shown in bold and 11 of the 36 entries are in this group. Hard white entries are listed in italicized print.
4. Test weights were good with an average of 62.6 lb/bu. Grain protein averaged 13.9% with a range of 12.3% to 15.5%. The average plant height was 33 inches. Lodging varied among cultivars and should give a good indication of straw strength.