

## 2010 WSU EXTENSION HARD SPRING WHEAT NURSERY AT WALLA WALLA, WA.

Variety Name *HDVH Italized	5 YEAR AVERAGE (BU/A)	3 YEAR AVERAGE (BU/A)	2 YEAR AVERAGE (BU/A)	2010				
				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	PLANT HT	HEAD DATE
BUCK PRONTO	68	75	93	<b>103</b>	<b>57.9</b>	16.1	40	150
<i>WA008123</i>				<b>102</b>	<b>56.5</b>	14.5	39	151
WA008074			91	<b>97</b>	<b>56.5</b>	14.8	40	151
<i>BR7030</i>				93	56.3	14.2	37	152
UI WINCHESTER		73	89	93	<b>56.9</b>	14.6	37	151
<i>PATWIN</i>				88	52.6	15.9	34	158
<i>WA008100</i>			89	88	55.9	14.3	44	160
JEFFERSON	66	74	88	87	<b>56.7</b>	15.4	41	153
LASSIK			87	86	55.1	14.4	34	154
SCARLET	66	74	85	82	54.9	15.0	42	156
WESTBRED 926	63	66	83	82	55.1	15.3	38	150
WB-FUZION		59		80	56.0	16.2	44	151
<i>CLEAR WHITE</i>			82	78	<b>57.5</b>	14.7	35	150
HOLLIS	62	65	78	77	55.7	16.0	48	153
TARA 2002	63	66	80	73	54.5	15.0	41	150
BULLSEYE		66	81	70	54.2	15.9	37	155
OR4990114			75	69	52.6	14.6	37	151
<i>MACON</i>			77	68	53.4	14.0	38	151
<i>OTIS</i>			80	66	54.6	13.9	44	158
IDO667				63	52.8	16.2	38	152
KELSE	61	66	75	62	51.6	16.9	40	155
<i>WA008122</i>				61	50.9	14.5	42	153
IDO665				61	52.0	15.8	38	153
HANK	61	61	71	53	50.3	16.0	37	152
C.V. %	7	7	7	9	2.1	2.6	2	1
LSD '@ .10'	3	4	5	10	1.6	0.5	1	1
Average	64	67	83	78	54.6	15.2	39	153
Highest	68	75	93	103	57.9	16.9	48	160
Lowest	61	59	71	53	50.3	13.9	34	150

### Walla Walla Hard Spring Wheat – Preliminary Data

1. Grain yield in the Walla Walla hard spring wheat trial averaged 78 bushels/acre and that was 14 bushels/acre higher than the 5-year average for this site. The Walla Walla nursery was located just east of Waitsburg, WA (Glen Smith, cooperator).

2. This nursery was seeded on 5 March, 2010 following spring wheat. Seed was placed at an 80#/acre seeding rate using a double-disc drill set on 6-inch spacing. Base applied fertilizer was 142#N/acre and an early spring soil test showed an additional 61#N/acre in the top 4 foot profile. Spring seeding and growing conditions were good, but stripe rust was severe.

3. Yields ranged from 53 bu/ac to 103 bu/ac. Yield values within the LSD range of the highest yield are shown in bold and 3 of the 24 entries are in this group. Buck Pronto was the highest yielding variety in the trial. The lattice RCBD experimental design improved variation allocation during statistical analysis and the CV by 69% for yield. Stripe rust was a strong factor in this trial with high infection levels for susceptible varieties before heading and all varieties showed infection.

4. Test weights averaged 54.6 lb/bu and ranged from 50.3 to 57.9 lb/bu. Grain protein averaged 15.2% with a range of 13.9 to 16.9%. The average plant height was 39 inches. High fertility and stripe rust contributed to low test weights, high protein and tall plants.