

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

Variety Name <small>*HDWH Italized</small>	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
<i>WA008123</i>				78	58.4	14.0	34	180
BUCK PRONTO	71	69	71	77	57.8	16.0	35	177
<i>BR7030</i>				70	56.7	13.6	33	182
LASSIK			69	70	56.4	14.9	29	182
WA008074			68	69	56.2	15.1	35	180
SCARLET	70	67	67	65	56.3	14.8	38	182
<i>PATWIN</i>				65	52.1	16.0	31	185
<i>CLEAR WHITE</i>			60	61	55.7	14.1	29	179
<i>WA008100</i>			69	61	57.3	13.9	37	186
JEFFERSON	68	63	61	58	56.8	15.1	36	182
UI WINCHESTER		64	61	56	54.7	15.5	34	181
BULLSEYE		60	58	47	55.8	15.3	31	182
WB-FUZION		56		46	53.4	15.7	35	178
HOLLIS	62	56	53	43	54.4	15.7	43	182
KELSE	65	58	53	42	52.6	17.0	35	182
WESTBRED 926	63	56	51	40	49.9	16.6	35	180
OR4990114			50	40	53.0	14.7	31	181
<i>WA008122</i>				39	52.4	15.2	36	182
<i>MACON</i>			49	37	51.8	14.7	35	181
<i>OTIS</i>			53	36	55.6	14.7	35	184
TARA 2002	65	56	48	35	48.7	15.7	36	178
HANK	62	52	44	27	46.3	16.6	31	181
IDO665				25	46.4	16.7	34	181
IDO667				24	50.7	16.5	34	180
C.V. %	6	7	9	5	1.4	2.7	5	0
LSD '@ .10'	2	3	5	3	1.0	0.6	2	1
Average	66	60	58	51	53.7	15.3	34	181
Highest	71	69	71	78	58.4	17.0	43	186
Lowest	62	52	44	24	46.3	13.6	29	177

Pullman Hard Spring Wheat – Preliminary Data

1. Grain yield in the Pullman hard spring wheat trial averaged 51 bushels/acre and was 15 bushels/acre lower than the 5-year average for this site. The Pullman nursery was located two miles south of Pullman, WA on the WSU Spillman Experimental Farm.
2. This nursery was seeded on 15 April, 2010 following mustard. Seed was placed at an 80#/acre seeding rate using a double-disc drill set on 6-inch spacing. Base applied fertilizer was 90#N/acre and an early spring soil test showed an additional 143#N/acre in the top 4 foot profile. This fertility level was determined to be adequate for hard spring wheat protein based on average yield at this location. Spring seeding and growing conditions were good, but stripe rust was severe. Early growing conditions were favorable for plant growth but were followed by dry conditions during grain filling. The spring wheat breeding program cooperated with the variety testing program conducting this study.
3. Yields ranged widely from 24 bu/ac to 78 bu/ac. Yield values within the LSD range of the highest yield are shown in bold and 2 of the 24 entries are in this group. Buck Pronto was highest yielding named variety. The lattice RCBD experimental design improved variation allocation during statistical analysis by 65% for yield. Stripe rust was a strong factor in this trial with high infection levels for susceptible varieties before heading.
4. Test weights averaged only 53.7 lb/bu and ranged from 46.3 to 58.4 lb/bu. Grain protein averaged 15.3% with a range of 13.6 to 17.0%. The average plant height was 34 inches. Limited precipitation during grain filling and stripe rust contributed to low test weights, high protein and variable yields.