

2010 WSU EXTENSION HARD SPRING WHEAT NURSERY AT HORSE HEAVEN, WA.

Variety Name *HDWH 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
<i>WA008100</i>			30	49	59.8	13.7	34	155
<i>OTIS</i>			30	47	61.0	13.8	35	152
BULLSEYE		29	30	47	62.0	15.2	28	152
SCARLET	31	30	29	46	59.5	15.3	33	152
JEFFERSON	31	27	29	46	60.7	15.1	30	149
<i>WA008122</i>				46	61.2	13.6	32	150
<i>MACON</i>			29	45	61.0	13.7	29	150
LASSIK			29	45	61.4	14.5	27	150
IDO667				45	61.8	15.5	30	149
UI WINCHESTER		25	29	44	62.2	15.3	26	148
HOLLIS	30	26	28	43	60.8	16.1	32	151
WB-FUZION		32		43	61.2	15.9	29	148
<i>WA008123</i>				43	61.3	14.5	29	150
WA008074			29	42	62.0	15.4	29	147
<i>PATWIN</i>				41	58.7	15.0	25	154
IDO665				41	60.7	15.9	28	147
HANK	30	26	26	40	60.5	15.7	26	148
KELSE	28	25	27	40	61.5	17.0	34	151
OR4990114			27	40	62.0	15.4	27	150
<i>BR7030</i>				39	62.4	14.2	28	148
WESTBRED 926	27	24	26	39	61.2	16.0	28	146
BUCK PRONTO	26	23	24	38	61.3	16.8	28	146
TARA 2002	28	25	25	36	59.2	16.3	30	146
<i>CLEAR WHITE</i>			24	33	61.3	14.5	25	147
C.V. %	8	8	7	6	0.6	1.5	4	1
LSD '@ .10'	1	2	2	3	0.5	0.3	1	1
Average	29	27	28	42	61.0	15.2	29	149
Highest	31	32	30	49	62.4	17.0	35	155
Lowest	26	23	24	33	58.7	13.6	25	146

Horse Heaven Hard Spring Wheat – Preliminary Data

1. Grain yield in the Horse Heaven hard spring wheat trial averaged 42 bushels/acre, a great improvement over the 2009 yield average of 13 bushels/acre. Both hard red and hard white wheat are included in this nursery. The Horse Heaven spring nursery was located about five miles southwest of Prosser, WA (M. Schmitt, cooperator).
2. This nursery was seeded on 4 March, 2010 following Chemical fallow. Seed was placed at a 60#/acre seeding rate using a double disk plot drill set on 6-inch spacing. Base fertilizer was 40#N and soil test analysis showed an additional 145#N available that should have been more than adequate for hard protein levels at projected yield levels. Spring seeding conditions were adequate, but dry conditions prevailed until unusually high rainfall started in May.
3. Yields ranged from 33 bu/ac to 49 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. Hard white entries are listed in italic. The lattice RCBD experimental design improved variation allocation during statistical analysis and the CV by 144% for yield.
4. Test weights were good with an average of 61.0 lb/bu. Grain protein averaged 15.2% with a range of 13.6 to 17.0% and is high due to the available N at this site. The average plant height was 29 inches.