

2009 WSU EXTENSION HARD SPRING WHEAT NURSERY AT HORSE HEAVEN, WA.

Variety Name *HDVH Italized	5 YEAR AVERAGE (BU/A)	3 YEAR AVERAGE (BU/A)	2 YEAR AVERAGE (BU/A)	2009				
				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	PLANT HT	HEAD DATE
VOLT		21	20	17	63.0	13.6	16	150
<i>BZ903-445WP</i>				17	61.5	14.8	15	149
WA008074				15	61.4	14.6	18	147
TARA 2002	23	19	19	14	59.3	15.9	18	149
WESTBRED 926	22	18	17	14	60.4	16.1	15	150
KELSE		19	18	14	61.4	15.4	18	150
JEDD		20	18	14	62.3	15.0	16	150
<i>CLEAR WHITE</i>				14	61.8	13.8	17	149
<i>WA008078</i>				14	59.5	15.3	18	149
BULLSEYE			20	14	63.0	14.6	16	151
WA008075				14	61.5	15.3	18	148
WA008072				14	61.3	15.5	17	149
OR4990114				14	62.0	14.5	16	149
<i>MACON</i>				13	59.5	14.5	17	149
<i>OTIS</i>				13	61.3	14.1	19	151
<i>BLANCA GRANDE</i>				13	61.8	14.2	17	149
SCARLET	24	24	23	13	60.1	15.4	19	151
HOLLIS	24	21	18	13	61.0	15.7	19	148
JEFFERSON	25	21	17	13	61.4	15.6	14	151
WA008027		21	20	13	59.8	16.0	17	150
<i>WA008079</i>				13	61.3	14.0	19	151
NPBHR70			18	13	60.6	15.8	17	149
UI WINCHESTER			16	13	60.9	14.9	15	149
WA008076				13	61.2	14.3	20	148
<i>RS110348W</i>				12	60.4	13.7	15	149
LASSIK				12	60.2	14.1	16	150
<i>WA008101</i>				12	59.8	13.8	16	149
<i>WA008100</i>				12	60.5	15.4	17	154
HANK	25	21	19	11	58.8	16.0	17	150
BUCK PRONTO	21	18	16	11	59.8	17.0	16	149
C.V. %	11	14	14	14	1.1	3.5	10	1
LSD '@ .10'	1	2	2	3	0.9	0.7	2	1
Average	23	20	18	13	60.9	15.0	17	150
Highest	25	24	23	17	63.0	17.0	20	154
Lowest	21	18	16	11	58.8	13.6	14	147

1. Grain yield in the Horse Heaven hard spring wheat trial averaged 13 bu/ac, 10 bu/ac less than the average 5-year yield for this location. The Horse Heaven spring nursery was located about 5 miles southwest of Prosser, WA (M. Schmitt, cooperater).
2. This nursery was seeded on 20 March, 2009 following summer fallow. Seed was placed at a 60#/acre seeding rate using a double disc plot drill set on 6-inch spacing. Base fertilizer was 40#N and soil test analysis showed an additional 110#N available. Spring seeding conditions were adequate and some spring rain made the outlook good for the spring crop until heading, when lack of moisture limited yield. The alpha lattice experimental designs improved variation allocation during statistical analysis and the CV by 150% compared to an RCBD design.
3. Yields ranged from 11 bu/ac to 17 bu/ac, with a CV of 14%. Yield values within the LSD range of the highest yield are shown in bold and 3 of the 30 entries are in this group. Hard white entries are listed in italicized print.
4. Test weights were good with an average of 60.9 lb/bu. Grain protein averaged 15.0% with a range of 13.6 to 17.0% and is high due to low yield and the available N at this site. The average plant height was 17 inches.