

2009 WSU EXTENSION HARD SPRING WHEAT NURSERY AT DAYTON, WA.

Variety Name <i>*HDVH Italized</i>	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
<i>WA008079</i>				43	57.9	13.6	28	167
<i>OTIS</i>				42	58.5	13.8	27	166
HANK	53	56	49	40	58.6	15.9	23	162
KELSE		56	50	40	58.5	16.0	27	165
BULLSEYE			50	40	59.9	14.9	23	166
LASSIK				40	59.4	14.4	23	167
<i>BZ903-445WP</i>				38	57.9	14.6	25	164
SCARLET	53	58	51	37	57.1	15.3	24	167
JEFFERSON	52	54	49	37	59.8	14.8	24	165
VOLT		54	49	36	59.0	14.2	23	167
<i>WA008100</i>				36	57.3	12.6	26	167
JEDD		52	46	35	60.1	14.8	21	162
<i>MACON</i>				34	58.6	13.7	24	163
<i>RSI10348W</i>				34	59.7	14.1	22	163
<i>WA008101</i>				34	59.0	12.8	26	164
BUCK PRONTO	48	50	43	33	58.1	17.0	24	159
<i>WA008078</i>				33	58.9	14.8	27	165
HOLLIS	49	52	45	32	58.8	15.6	26	165
WA008027		51	43	32	58.4	16.2	26	166
UI WINCHESTER			43	32	60.1	15.4	22	161
WA008075				30	59.1	16.3	25	164
<i>CLEAR WHITE</i>				29	58.6	13.5	21	162
NPBHR70			43	29	58.0	15.8	22	163
WA008076				29	58.3	15.3	27	162
WA008074				29	58.9	15.1	23	165
OR4990114				29	58.4	15.0	22	164
WESTBRED 926	50	50	42	27	58.0	16.6	23	161
WA008072				27	58.7	15.3	22	165
<i>BLANCA GRANDE</i>				25	60.2	15.6	18	160
TARA 2002	49	51	43	25	58.1	16.0	24	160
C.V. %	7	7	7	10	0.8	2.0	6	1
LSD '@ .10'	2	3	3	5	0.7	0.4	2	2
Average	50	53	46	34	58.7	15.0	24	164
Highest	53	58	51	43	60.2	17.0	28	167
Lowest	48	50	42	25	57.1	12.6	18	159

1. Grain yield in the Dayton hard spring wheat trial averaged 34 bu/ac, 16 bu/ac lower than the average 5-year yield for this location. The low yields at this site indicate below average conditions that were evident from emergence through harvest. Soil compaction is suspected to have contributed to limiting yield potential. The Dayton nursery was located about 6 miles north of Dayton, WA (Jay Penner, cooperator).
2. This nursery was seeded on 16 April, 2009 following winter wheat. Seed was placed at an 80#/acre seeding rate using a double disc plot drill set on 6-inch spacing. Base fertilizer was applied at 137#N, 10#P and 15#S per acre, and a spring soil test showed that no additional fertilizer was needed for the hard wheat trial to meet university fertilization guidelines. Spring seeding conditions were good with moisture rated 6 out of 10 and spring rain made the early outlook good for the spring crop. For grain yield, the alpha lattice experimental design did not improve variation allocation during statistical analysis and the CV compared to an RCBD design.
3. Yields ranged from 25 bu/ac to 43 bu/ac, with a CV of 10%. Yield values within the LSD range of the highest yield are shown in bold and 7 of the 30 entries are in this group. Hard white entries are listed in italicized print.
4. Average test weights were lower than usual at 58.7 lb/bu. Grain protein was high and averaged 15.0% with a range of 12.6% to 17.0%. The average plant height was 24 inches, showing the limited plant growth at this site. No lodging occurred.