

## 2009 WSU EXTENSION HARD SPRING WHEAT NURSERY AT BICKLETON, WA.

Variety Name <i>*HDVWH Italicized</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
<i>OTIS</i>	--	--		27	61.5	13.0	23
<i>CLEAR WHITE</i>	--	--		27	61.0	13.1	20
HANK	--	--	29	26	59.2	14.4	21
<i>WA008079</i>	--	--		26	60.0	13.2	23
<i>BZ903-445WP</i>	--	--		25	59.2	14.0	22
<i>WA008078</i>	--	--		24	60.5	14.4	23
HOLLIS	--	--	28	23	60.4	14.0	26
UI WINCHESTER	--	--	26	23	60.3	13.8	18
<i>WA008101</i>	--	--		23	61.1	12.2	21
SCARLET	--	--	27	22	59.3	14.3	23
JEDD	--	--	26	22	62.2	14.2	20
<i>RS110348W</i>	--	--		22	61.0	13.5	19
BULLSEYE	--	--	28	22	62.0	13.2	19
WA008075	--	--		22	60.3	14.7	21
WA008074	--	--		22	60.5	13.7	22
<i>WA008100</i>	--	--		22	60.1	13.3	22
TARA 2002	--	--	25	21	60.5	15.0	23
WESTBRED 926	--	--	26	21	60.0	15.1	22
KELSE	--	--	27	21	60.3	15.4	24
VOLT	--	--	25	20	61.3	13.3	21
WA008027	--	--	25	20	60.1	15.1	24
WA008072	--	--		20	59.6	14.6	21
OR4990114	--	--		20	58.9	14.1	21
<i>MACON</i>	--	--		19	59.0	13.2	20
<i>BLANCA GRANDE</i>	--	--		19	61.1	15.1	20
JEFFERSON	--	--	26	19	59.4	14.5	20
LASSIK	--	--		19	60.2	14.0	20
BUCK PRONTO	--	--	22	18	58.8	15.6	21
NPBHR70	--	--	24	18	59.0	15.4	20
WA008076	--	--		18	60.1	14.0	23
C.V. %	--	--	11	14	1.5	3.6	8
LSD '@ .10'	--	--	3	4	1.3	0.7	2
Average	--	--	26	22	60.2	14.1	21
Highest	--	--	29	27	62.2	15.6	26
Lowest	--	--	22	18	58.8	12.2	18

1. Grain yield in the Bickleton hard spring wheat trial averaged 22 bu/ac, about 9 bu/ac lower than the 2008 average yield for this location. The Bickleton nursery was located about 3 miles east of Bickleton, WA (Steve Matsen, cooperator).
2. This nursery was seeded on 21 April, 2009 following spring wheat. Seed was placed at a 60#/acre seeding rate using a no-till plot drill fitted with Cross-slot openers set on 10-inch spacing. Spring seeding conditions were good with moisture rated 7 out of 10. Base fertilizer was 30#N, 5#P, and 5#S per acre applied in the spring, and an additional 25#N, 5#P, and 5#S of fertilizer was applied at planting for this hard trial. The alpha lattice experimental designs improved variation allocation during statistical analysis and the CV by 71% compared to an RCBD design.
3. Yields ranged from 18 bu/ac to 27 bu/ac. The CV was larger than desirable, 14%, but is not uncommon in low yielding trials. Yield values within the LSD range of the highest yield are shown in bold and 8 of the 30 entries are in this group. Hard white entries are listed in italicized print and the six of the top seven yielding cultivars are hard whites cultivars.
4. Test weights were good with an average of 60.2 lb/bu. Grain protein averaged 14.1% with a range of 12.2% to 15.6%. The average plant height was 21 inches.