2009 WSU EXTENSION HARD SPRING WHEAT NURSERY AT ST. JOHN, WA.

Variety Name *HDWH Italized	5 YEAR AVERAGE (BU/A)	3 YEAR AVERAGE (BU/A)	2 YEAR AVERAGE (BU/A)	2009 YIELD (BU/A)	2009 TEST WT (LBS/BU)	2009 PROTEIN (%)	2009 PLANT HT	2009 HEAD DATE
BZ903-445WP				**88**	60.0	13.9	31	172
OTIS				**87**	61.8	13.3	33	173
WA008100				**87**	61.2	12.8	34	175
LASSIK				**85**	61.1	13.7	26	170
WA008079				**84**	61.0	13.0	35	174
WA008101				**81**	61.7	12.8	31	170
SCARLET	65	68	68	79	60.1	15.5	32	171
KELSE		64	66	79	60.7	15.7	33	172
BULLSEYE			66	79	**62.8**	14.3	27	171
JEFFERSON	65	65	65	78	61.1	15.2	30	170
JEDD		64	64	78	61.9	13.9	24	169
WA008078				78	61.0	14.1	32	171
HANK	65	64	64	76	59.9	14.5	31	169
UI WINCHESTER			62	76	61.1	14.3	29	168
BUCK PRONTO	64	64	63	75	60.2	16.2	29	166
RSI10348W				75	60.9	13.6	27	168
HOLLIS	65	66	67	74	60.5	16.0	38	170
TARA 2002	65	66	65	74	61.0	14.8	32	166
MACON				73	60.8	12.8	28	169
VOLT		62	63	72	62.0	14.7	27	174
CLEAR WHITE				71	60.9	13.2	27	168
WA008027		60	59	71	60.7	16.4	35	173
WA008072				69	61.2	15.2	29	170
WA008076				68	61.3	15.2	35	167
WESTBRED 926	63	62	61	67	60.0	15.6	29	167
NPBHR70			60	67	60.1	15.5	30	170
WA008075				66	61.5	15.8	31	169
BLANCA GRANDE				65	62.0	15.2	27	166
WA008074				65	61.6	15.4	29	171
OR4990114				61	60.4	14.7	27	170
C.V. %	8	8	8	8	0.8	2.9	6	1
LSD '@ .10'	3	4	5	8	0.6	0.6	3	1
Average	65	64	64	75	61.0	14.6	30	170
Highest	65	68	68	88	62.8	16.4	38	175
Lowest	63	60	59	61	59.9	12.8	24	166

1. Grain yield in the St. John hard spring wheat trial averaged 75 bu/ac, 10 bu/ac higher than the average 5-year yield for this location. The St. John nursery was located about 3 miles east of St. John, WA (Mac Mills, cooperator).
2. This nursery was seeded on 20 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 70#N and 10#S per acre, and a spring soil test showed that an additional 65#N and 11#S fertilizer was needed for the hard wheat trial to meet university fertilization guidelines and it was applied at seeding. Spring seeding conditions were good with moisture rated 7 out of 10 and spring rain made the early outlook good for the spring crop. For grain yield, the alpha lattice experimental design improved variation allocation during statistical analysis and the CV by 150% compared to an RCBD design.
3. Yields ranged from 61 bu/ac to 88 bu/ac, with a CV of 8%.Yield values within the LSD range of the highest yield are shown in bold and 6 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 61.0 lb/bu. Grain protein was high and averaged 14.6% with a range of 12.8% to 16.4%. The average plant height was 30 inches. No lodging occurred.