

2010 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)	2010			
				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	PLANT HT
LASSIK			67	48	54.2	14.6	29
<i>PATWIN</i>				45	50.7	15.5	29
<i>BR7030</i>				44	54.0	14.7	33
SCARLET	65	59	60	41	53.9	14.8	36
BUCK PRONTO	62	55	58	40	53.9	16.1	34
JEFFERSON	63	56	58	39	55.4	15.2	34
<i>CLEAR WHITE</i>			55	39	54.0	14.5	29
UI WINCHESTER		54	58	39	53.8	15.4	31
WA008074			52	39	55.1	14.6	33
<i>WA008123</i>				39	56.2	13.9	34
WESTBRED 926	60	53	52	36	52.1	15.8	32
WB-FUZION		40		36	52.7	15.4	35
TARA 2002	62	55	55	35	52.6	14.1	34
BULLSEYE		55	57	35	55.4	15.1	29
KELSE	61	55	56	34	53.8	16.3	34
HOLLIS	61	55	54	33	53.0	14.9	42
IDO665				32	52.3	15.1	31
<i>WA008100</i>			59	31	53.6	14.8	37
<i>MACON</i>			51	30	53.3	14.6	33
<i>WA008122</i>				30	52.8	14.4	36
<i>OTIS</i>			57	28	55.5	13.6	35
OR4990114			44	27	53.6	14.3	29
HANK	60	51	51	26	50.7	15.3	30
IDO667				23	53.1	15.2	31
C.V. %	10	11	11	17	2.9	5.6	3
LSD '@ .10'	3	5	6	8	2.1	1.2	2
Average	62	54	56	35	53.6	14.9	33
Highest	65	59	67	48	56.2	16.3	42
Lowest	60	40	44	23	50.7	13.6	29

St. John Hard Spring Wheat – Preliminary Data

1. Grain yield in the St. John hard spring wheat trial averaged 35 bushels/acre, 27 bushels/acre lower than the 5-year average for this site. The St. John nursery was located about three miles east of St. John, WA (Mac Miles, cooperator).
2. This nursery was seeded on 1 April, 2010 following winter wheat. Seed was placed at an 80#/acre seeding rate using a double-disc drill set on 6-inch spacing. Base applied fertilizer was 115#N/acre and an early spring soil test showed an additional 74#N/acre in the top 4 foot profile. An additional 45#N/acre was applied to the hard plots based on yield potential. Spring seeding and growing conditions were good, but early growth potential did not make yield because of dry conditions during grain filling and high levels of stripe rust on susceptible cultivars.
3. Yields ranged from 23 bu/ac to 48 bu/ac. Yield values within the LSD range of the highest yield are shown in bold and 4 of the 24 entries are in this group. Lassik was highest yielding variety. The lattice RCBD experimental design improved variation allocation during statistical analysis by 58% for yield. Despite that improvement, the CV was higher than desired, but entries were still significantly different (P=0.0014).
4. Test weights were very low averaging 53.6 lb/bu and ranged from 50.7 to 56.2 lb/bu. Grain protein was high and averaged 14.9% with a range of 13.6 to 16.3%. The average plant height was 33 inches.