

2010 WSU EXTENSION HARD SPRING WHEAT NURSERY AT CONNELL, WA.

Variety Name <small>*HDWH Italized</small>	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	HEAD DATE
<i>WA008100</i>			38	44	58.8	13.2	32	159
<i>PATWIN</i>				43	58.5	15.0	25	156
SCARLET	31	30	36	42	58.7	14.5	32	156
LASSIK			36	42	60.6	15.3	27	154
JEFFERSON	29	28	33	41	60.6	15.1	28	154
<i>BR7030</i>				40	60.9	15.0	28	154
WA008074			31	40	61.7	15.4	29	152
UI WINCHESTER		26	33	39	61.7	15.6	27	153
<i>WA008123</i>				39	60.2	15.1	28	154
BULLSEYE		27	32	38	60.4	14.1	28	155
HOLLIS	28	27	32	37	60.2	15.6	34	155
MACON			30	36	60.7	12.9	29	153
KELSE	26	25	28	36	59.4	16.1	31	155
WB-FUZION		26		36	60.9	15.7	30	152
<i>OTIS</i>			33	35	59.2	12.9	32	158
BUCK PRONTO	25	25	30	35	59.9	17.4	27	150
<i>WA008122</i>				35	59.3	12.9	31	154
WESTBRED 926	25	23	27	34	60.3	16.1	26	151
<i>CLEAR WHITE</i>			29	34	60.9	14.1	25	151
OR4990114			29	33	60.8	14.8	27	153
IDO665				31	59.3	14.5	28	153
IDO667				31	60.2	13.7	28	153
HANK	26	24	27	30	59.2	14.7	27	153
TARA 2002	25	22	26	29	58.3	14.9	28	151
C.V. %	7	7	7	6	0.6	2.0	5	0
LSD '@ .10'	1	2	2	3	0.5	0.4	2	1
Average	27	26	31	37	60.0	14.8	29	154
Highest	31	30	38	44	61.7	17.4	34	159
Lowest	25	22	26	29	58.3	12.9	25	150

Connell Hard Spring Wheat – Preliminary Data

1. Grain yield in the Connell hard spring wheat trial averaged 37 bushels/acre, 10 bushel/acre higher than the 5-year average. The Connell nursery was located 6 miles east of Connell, WA (D. Bauermeister, cooperator).
2. This nursery was seeded on 5 March, 2010 following a fallow year. Seed was placed at a 60#/acre seeding rate using a double disk plot drill set on 6-inch spacing. Base fertilizer was 60#N/acre fall applied and a spring soil test showed 230#N/acre in the top 4 foot profile. Spring seeding conditions were good, but early spring conditions were dry until unusually prolific rainfall started in May. Stripe rust infestation was very high at this location. This severe stripe rust infestation influenced performance of susceptible varieties. The spring wheat breeding program cooperated with the variety testing program conducting this study.
3. Yields ranged from 29 bu/ac to 44 bu/ac. Yield values within the LSD range of the highest yield are shown in bold and 5 of the 24 entries are in this group. The hard white variety Patwin was the highest yielding named variety. The lattice RCBD experimental design improved variation allocation during statistical analysis and the CV by 11% for yield.
4. Test weights were very good considering the level of stripe rust and averaged 60.0 lb/bu and ranged from 58.3 to 61.7 lb/bu. Grain protein averaged 14.8% with a range of 12.9 to 17.4%. The average plant height was 29 inches.