

## 2011 WSU Variety Testing Hard Spring Wheat Trial, Pullman

Variety Name <small>*Hard White Italized</small>	5 YEAR AVERAGE (BU/A)	3 YEAR AVERAGE (BU/A)	2 YEAR AVERAGE (BU/A)	2011				
				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	PLANT HT	HEAD DATE
WA 8123			81	<b>84</b>	<b>63.8</b>	9.9	32	182
WA 8133				<b>80</b>	<b>63.5</b>	9.0	33	182
Patwin 515				78	62.2	10.4	25	184
BR7030			72	74	<b>63.8</b>	9.3	31	183
WA 8074		70	71	74	62.7	8.6	32	183
Lassik		71	72	74	63.0	9.3	29	185
WA 8148				74	61.5	9.4	33	184
Buck Pronto	71	71	75	72	62.7	10.6	33	182
UI Winchester		64	64	72	62.8	9.4	32	183
Scarlet	70	67	67	69	62.3	9.2	35	184
Bullseye		60	56	66	<b>63.6</b>	7.7	29	185
Hollis	61	57	54	65	61.6	10.5	43	184
Clear White 515				65	61.2	9.5	30	182
Jefferson	65	61	60	62	61.5	8.6	34	184
Macon		53	49	61	61.7	8.5	33	184
Westbred 926	60	54	50	60	60.3	10.3	32	182
Kelse	63	55	51	60	62.6	11.3	33	184
10Fx Inc.1				57	61.1	8.5	31	183
Cerere				54	61.8	8.1	31	191
Tara 2002	59	49	43	52	58.8	10.8	34	182
Otis		52	43	51	62.9	9.3	35	186
IDO702				51	60.3	9.6	33	184
WB-Fuzion			47	47	60.6	10.0	32	182
Hank	55	43	34	40	58.0	10.9	30	183
C.V.	10	10	6	6	0.6	10.6	3	0
LSD	2	4	3	5	0.4	1.1	1	1
Average	63	59	58	64	61.9	9.5	32	184
Highest	71	71	81	84	63.8	11.3	43	191
Lowest	55	43	34	40	58.0	7.7	25	182

### Pullman Hard Spring Wheat – Preliminary Data

1. Grain yield in the Pullman hard spring wheat trial averaged 64 bushels/acre and was similar to the 5-year average. The Pullman nursery was located at the WSU Spillman experimental farm about two miles south of Pullman, WA (Ryan Davis, farm manager). This trial was conducted in cooperation with the spring wheat breeding program.

2. This nursery was seeded on 24 April, 2011 following winter wheat. Seed was placed at a 90#/acre seeding rate using a double-disc drill set on 6-inch spacing. Base fertilizer was 70#N/acre and soil test analysis showed 99#N/acre available. An additional 50#N/acre was applied to meet the hard protein target at projected, historical yield levels. Spring seeding was late but establishment was good.

3. Yields ranged from 40 bu/acre to 87 bu/acre. Yield values within the LSD range of the highest yield are shown in bold and 2 of the 24 entries are in this group. Patwin 515 was the highest yielding entry for 2011 and Buck Pronto was highest yielding over 5 years at this location. Stripe rust was a factor in this trial and no fungicide was applied. There was an impact on yield by stripe rust with yields reduced by 30% or more for susceptible entries. The Lattice design was 115% efficient compared to an RCBD for yield.

4. Test weights were good with an average of 61.9 lb/bu and ranged from 58.0 to 63.8 lb/bu. Grain protein averaged 9.5% with a range of 7.7 to 11.3% and was much lower than desired. The average plant height was 32 inches with no lodging.