

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

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
BR7030			80	<b>97</b>	63.6	12.2	32	178
WA 8123			79	<b>95</b>	63.2	12.6	31	177
Otis		57	65	<b>93</b>	62.8	12.0	38	182
Lassik		65	78	<b>92</b>	63.1	12.4	30	180
Macon		57	68	<b>91</b>	62.3	11.8	32	178
Scarlet	64	60	72	<b>91</b>	62.0	13.1	34	178
Kelse	62	61	71	90	63.0	14.0	34	179
WA 8074		60	75	88	62.9	12.7	32	176
WA 8133				88	63.8	12.1	32	178
Bullseye		60	70	87	<b>64.5</b>	12.7	29	178
Cerere				86	61.7	12.6	30	185
Buck Pronto	59	61	74	85	62.3	14.9	31	176
Patwin 515				85	62.0	13.3	24	178
WB-Fuzion			70	84	61.9	14.1	33	176
10Fx Inc.1				84	64.1	13.4	31	178
UI Winchester		58	71	83	63.1	13.0	29	176
IDO702				83	61.3	13.7	33	180
Jefferson	60	58	69	82	62.5	13.9	30	180
Westbred 926	57	54	67	80	61.6	13.6	30	176
Clear White 515				80	62.1	12.8	29	175
Hollis	56	53	63	79	62.0	14.4	46	180
Tara 2002	56	50	62	79	62.6	13.1	34	175
Hank	59	56	64	79	61.6	13.2	29	177
WA 8148				76	61.7	13.3	32	179
C.V.	10	9	7	5	0.4	1.8	4	0
LSD	2	3	4	6	0.3	0.2	1	1
Average	59	58	70	86	62.6	13.1	32	178
Highest	64	65	80	97	64.5	14.9	46	185
Lowest	56	50	62	76	61.3	11.8	24	175

### Dayton Hard Spring Wheat – Preliminary Data

1. Grain yield in the Dayton hard spring wheat trial averaged 86 bushels/acre 27 bu/acre higher than the 5-year average. The Dayton nursery was located about five miles north of Dayton, WA (Jay Penner, cooperator).
2. This nursery was seeded on 18 April, 2011 following winter wheat. Seed was placed at an 80#/acre seeding rate using a double-disc drill set on 6-inch spacing. Base fertilizer was 160#N/acre and soil test analysis showed an adequate level of N available. No additional N was applied to meet the hard protein target at projected yield levels. Spring seeding was late but establishment was good.
3. Yields ranged from 76 bu/acre to 97 bu/acre. Yield values within the LSD range of the highest yield are shown in bold and 6 of the 24 entries are in this group. Otis, a hard white variety, was the highest yielding named variety for 2011 and Scarlet was highest yielding over 5 years at this location. Stripe rust was a factor in this trial and fungicide was applied on May 31 and June 27. There appears to be a slight effect on yield by stripe rust for susceptible entries of 10% or more. The Lattice design was 217% efficient compared to an RCBD for yield.
4. Test weights were good with an average of 62.6 lb/bu and ranged from 61.3 to 64.5 lb/bu. Grain protein averaged 13.1% with a range of 11.8 to 14.9%. The average plant height was 32 inches with no lodging.