2011 WSU Variety Testing Hard Spring Wheat Trial, Walla Walla

Variety Name *Hard White Italized	5 YEAR AVERAGE (BU/A)	3 YEAR AVERAGE (BU/A)	2 YEAR AVERAGE (BU/A)	2011 YIELD (BU/A)	2011 TEST WT (LBS/BU)	2011 PROTEIN (%)	2011 PLANT HT	2011 HEAD DATE
WA 8123			87	**72**	59.2	14.9	35	167
BR7030			81	**69**	57.1	15.1	35	167
Bullseye		77	70	**69**	**60.7**	15.0	32	168
WA 8074		83	83	**69**	56.9	15.3	35	167
Scarlet	67	79	75	**68**	58.0	15.3	38	169
WA 8133				**68**	58.6	14.0	36	168
Kelse	62	72	64	**67**	58.5	16.5	36	168
Tara 2002	62	76	70	**66**	57.7	14.9	37	164
Buck Pronto	67	84	85	**66**	57.5	16.9	35	165
Lassik		80	76	**66**	57.6	14.8	32	169
Westbred 926	62	77	74	65	56.6	15.9	35	165
Macon		73	66	64	56.5	15.0	35	167
Otis		75	65	64	**60.2**	14.3	39	170
UI Winchester		81	79	64	57.6	15.3	33	167
WA 8148				64	56.4	16.4	34	169
Jefferson	66	79	75	63	58.1	15.8	35	168
WB-Fuzion			72	63	57.4	16.9	37	166
Clear White 515				63	56.2	15.0	33	166
Patwin 515				63	55.3	15.8	27	168
10Fx Inc.1				62	57.8	15.6	35	168
Hollis	60	72	69	60	58.1	16.8	46	169
Hank	57	67	57	60	56.8	15.4	34	167
IDO702				60	56.1	16.0	35	168
Cerere				57	**59.6**	15.0	33	175
C.V.	11	9	9	6	1.0	3.2	3	0
LSD	3	4	6	6	1.2	1.0	2	1
Average	63	77	73	65	57.7	15.5	35	168
Highest	67	84	87	72	60.7	16.9	46	175
Lowest	57	67	57	57	55.3	14.0	27	164

Walla Walla Hard Spring Wheat – Preliminary Data

1. Grain yield in the Walla Walla hard spring wheat trial averaged 65 bushels/acre, 2 bushel/acre more than the 5-year average. The Walla Walla nursery was located about one mile east of Waitsburg, WA (Glen Smith, cooperator).
2. This nursery was seeded on 25 March, 2011 following hard red spring wheat. Seed was placed at an 80#/acre seeding rate using a double-disc drill set on 6-inch spacing. Base fertilizer was 112#N/acre and soil test analysis showed high 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 57 bu/ac to 72 bu/ac. Yield values within the LSD range of the highest yield are shown in bold and 10 of the 24 entries are in this group. Bullseye was the highest yielding named variety for 2011 and Scarlet and Buck Pronto were highest yielding over 5 years at this location. Stripe rust was a factor in this trial and fungicide was applied on 18 May and 12 June. The fungicide appears to be effective with no apparent yield loss for susceptible entries. The Lattice design was 179% efficient compared to an RCBD for yield.
4. Test weights were low with an average of 57.7 lb/bu and ranged from 55.3 to 60.7 lb/bu. Grain protein averaged 15.5% with a range of 14.0 to 16.9%. The average plant height was 35 inches with no lodging.