

## 2011 WSU Variety Testing Hard Winter Wheat Trial, Connell

Variety Name <i>*Hard White Italized</i>	5 YEAR AVERAGE (BU/A)	3 YEAR AVERAGE (BU/A)	2 YEAR AVERAGE (BU/A)	2011					
				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	LODGING (%)	PLANT HT	HEAD DATE
Norwest 553	--	50	55	<b>76</b>	62.6	12.6	0	33	141
WA 8119	--		68	<b>76</b>	61.3	12.2	0	40	146
WA 8120	--		70	<b>76</b>	61.0	12.1	0	40	146
OR2080111H	--			<b>73</b>	61.4	11.7	0	37	140
Azimut	--			<b>68</b>	60.7	11.8	0	34	140
ML9W05-2501	--			66	61.7	13.9	0	38	143
WA 8118	--		49	65	60.5	13.6	0	39	140
Genesi	--			65	61.3	13.3	0	33	140
IDO656	--			61	60.4	13.2	0	42	145
Finley	--	51	56	60	63.4	12.4	0	41	145
Eltan (SWW Check)	--	55	58	59	61.1	11.6	0	37	147
UI Silver	--	47	55	59	62.2	12.2	0	39	145
Whetstone	--	44	49	58	62.6	12.4	0	35	140
Bauermeister	--	54	57	57	60.9	12.6	0	38	148
WB-Tucson	--	49		57	<b>63.9</b>	12.1	0	36	144
WA 8070	--	51	57	57	61.2	12.5	0	41	147
WA 8096	--	54	59	57	60.5	11.5	0	40	148
Farnum	--	51	57	56	60.2	12.9	0	40	148
MDM	--	55	59	56	61.3	11.5	0	39	147
UICF-Grace	--	44	47	54	60.2	12.8	0	43	142
Peregrine	--	45	48	51	62.6	11.0	0	41	144
OR2080156H	--		44	51	61.6	12.7	0	34	146
Esperia	--	38	34	49	61.8	12.9	0	33	140
Boundary	--	48	52	46	61.7	12.9	0	37	145
Eddy	--	43	45	46	63.8	12.1	0	36	141
Accipiter	--	45	48	46	63.1	12.0	0	38	147
AgriPro Paladin	--	29	25	45	63.1	12.7	0	36	143
IDO835	--			44	62.6	12.4	0	37	146
Altigo	--			42	59.4	11.7	0	32	144
Hatton	--	44	41	36	<b>64.8</b>	12.0	0	40	146
C.V.	--	11	9	7	0.7	3.5	0	5	0
LSD	--	5	5	8	0.9	0.8	0	3	1
Average	--	47	52	57	61.8	12.4	0	38	144
Highest	--	55	70	76	64.8	13.9	0	43	148
Lowest	--	29	25	36	59.4	11.0	0	32	140

## Connell Hard Winter Wheat - Preliminary Data

1. Grain yield in the Connell hard winter wheat trial averaged 57 bushels/acre, 10 bushels/acre higher than the 3-year average. Higher yields were enabled by favorable spring precipitation and temperatures. The Connell nursery was located about six miles east of Connell, WA (D. Bauermeister farm).
2. This nursery was seeded on 30 August, 2010 following summer fallow. Seed was placed at a 45#/acre seeding rate using a deep furrow plot drill set on 15-inch spacing. Base fertilizer was 60#N and a spring soil test analysis showed a greater than needed N supply for hard protein levels at projected yield levels. Fall seeding conditions were favorable and emergence and stand establishment were good.
3. Yields ranged from 36 bu/ac to 76 bu/ac. Norwest 553 was the highest yielding entry in this trial. All yield values within the 10% LSD range of the highest yield are shown in bold and this included 5 of the 30 entries. The cool and wet spring conditions along with local inoculum sources created early, high levels of stripe rust at this location. A fungicide was applied June 1 and stopped stripe rust across the trial. However, there is an estimated 30% or more yield loss by stripe rust susceptible entries in this trial.
4. Test weights were very good with an average of 61.8 lb/bu. Despite early stripe rust, the June 1 fungicide provided protection during grain filling and helped maintain test weight.
5. Grain protein averaged 12.4% with a range of 11.0 to 13.9%. Protein overall was lower than predicted because of high yield levels. Protein was not higher in the lower yield levels in this trial because stripe rust lowered yield potential early and did not occur during grain filling when plants were protected by fungicide. Plant height averaged 38 inches with no lodging.