

2011 WSU Variety Testing Hard Spring Wheat Trial, Fairfield

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 (%)	PLANT HT
Clear White 515	--	--	--	57	59.1	12.7	32
WA 8133	--	--	--	57	61.5	12.4	35
Tara 2002	--	--	--	56	59.7	12.1	37
WA 8123	--	--	--	55	61.2	12.2	35
Lassik	--	--	--	52	61.2	12.1	31
Patwin 515	--	--	--	52	59.8	13.5	23
Hollis	--	--	--	51	60.2	13.1	43
10Fx Inc.1	--	--	--	51	60.9	12.1	32
BR7030	--	--	--	49	61.1	12.1	31
UI Winchester	--	--	--	49	60.9	12.5	33
Kelse	--	--	--	48	61.1	14.2	35
Buck Pronto	--	--	--	47	60.3	14.1	33
WA 8074	--	--	--	47	60.4	13.0	37
Macon	--	--	--	46	57.9	11.5	37
Westbred 926	--	--	--	45	59.6	13.4	34
Cerere	--	--	--	45	58.6	11.8	30
Otis	--	--	--	44	60.0	11.6	39
WB-Fuzion	--	--	--	43	59.7	12.9	34
Scarlet	--	--	--	42	60.4	12.4	34
WA 8148	--	--	--	40	59.3	13.8	34
Bullseye	--	--	--	39	62.1	13.1	30
Jefferson	--	--	--	39	60.8	12.9	32
IDO702	--	--	--	39	59.2	12.5	33
Hank	--	--	--	36	55.5	13.4	32
CV	--	--	--	11	1.1	3.0	4
LSD	--	--	--	5	0.7	0.4	1
Average	--	--	--	47	60.0	12.7	34
Highest	--	--	--	57	62.1	14.2	43
Lowest	--	--	--	36	55.5	11.5	23

Fairfield Hard Spring Wheat – Preliminary Data

1. Grain yield in the Fairfield hard spring wheat trial averaged 47 bushels/acre. The Fairfield nursery was located about four miles northwest of Fairfield, WA (L. Green, cooperator). This was a new location with no data for the previous five years.
2. This nursery was seeded on 2 May, 2011 following winter wheat. Due to wet conditions and a stuck planter, some of the trial was not planted and was compensated by missing values in the analysis. Seed was placed at an 80#/acre seeding rate using a no-till plot drill set on 10-inch spacing. Base fertilizer was applied through the drill at 115 #N/acre. A soil test before planting showed 72#N/acre available and no additional N was applied. Spring seeding was late but establishment was good.
3. Yields ranged from 36 bu/acre to 57 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. Clear White 515 was the highest yielding entry. Stripe rust was a factor in this trial but no fungicide was applied. There appears to be 25% or more effect on yield by stripe rust for susceptible entries. The Lattice design was 117% efficient compared to an RCBD for yield.
4. Test weights were good with an average of 60.0 lb/bu and ranged from 55.5 to 62.1 lb/bu. Grain protein averaged 12.7% with a range of 11.5 to 14.2%. The average plant height was 34 inches with no lodging.