

2013 WSU Variety Testing Hard Winter Wheat Trial, St. Andrews

Variety Name <i>*Hard White Italicized</i>	5 YEAR AVERAGE (BU/A)	3 YEAR AVERAGE (BU/A)	2 YEAR AVERAGE (BU/A)	2013					
				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	PLANT HT	HEAD DATE	
WA 8181				67	59.8	11.7	39	157	
Bauermeister	58	68	69	64	61.2	12.0	38	157	
WA 8119		64	60	64	59.7	11.7	34	156	
Eltan (SWW Check)	55	64	68	62	61.8	11.7	33	154	
Farnum	54	61	61	60	59.7	12.6	39	157	
JC1101				60	63.3	13.6	33	153	
WA 8178				59	60.8	12.3	40	157	
WA 8180				57	61.1	12.8	41	155	
Boundary	55	63	63	56	62.2	12.0	29	153	
WA 8179				56	61.5	13.2	40	152	
WA 8158			56	55	60.5	13.5	35	157	
UI Silver	53	58	57	55	63.2	12.6	34	152	
WA 8159			54	53	60.4	12.8	39	156	
Sprinter (WA 8118)		52	50	52	61.3	14.8	41	152	
Keldin				51	63.3	13.3	36	152	
DAS 2				51	62.2	13.5	34	151	
WA 8156			52	51	59.6	12.4	36	157	
JC1103				50	63.0	12.9	33	153	
JC1102				49	62.2	13.9	33	154	
Finley	48	53	52	48	63.1	13.2	39	151	
LCS Colonia				47	57.9	12.5	29	157	
WA 8157			46	47	61.7	12.9	31	154	
Genesis				46	60.8	13.7	29	151	
UI SRG		59	54	46	62.3	13.4	38	152	
WB-Arrowhead				46	62.7	13.1	37	152	
AP503CL2				43	63.6	15.6	33	151	
DAS 1				42	60.7	13.5	34	152	
IDO816			46	40	61.2	13.4	35	154	
LCS-Azimut		51	49	39	58.1	12.9	28	152	
NSA06-4663				37	58.4	12.6	28	152	
Whetstone				37	61.9	15.3	34	152	
Norwest 553	41	51	48	35	61.5	13.7	27	154	
OR2080229H			45	33	57.8	14.8	32	154	
OR2080156H		44	38	28	58.3	15.5	31	157	
OR2080236H			43	26	59.3	12.3	27	154	
OR2080227H	-	-	-	-	Variety Lost, No Data			-	-
C.V. %	15	16	16	17	1.1	4.1	4	1	
LSD (.10)	4	5	6	9	0.7	0.6	2	1	
Average	50	55	52	48	60.7	13.2	34	154	
Highest	58	68	69	67	63.6	15.6	41	157	
Lowest	37	41	38	26	57.8	11.7	27	151	

St. Andrews Hard Winter Wheat – Preliminary Data

1. Grain yield in the 2013 St. Andrews hard winter wheat trial averaged 48 bushels/acre, similar to the 5-year average for this location. The St. Andrews nursery was located about 7 miles west of the town of Coulee, WA (L. Tannenberg, Cooperator).
2. This nursery was seeded on 4 September, 2012 following fallow. Seed was placed at a 50#/acre seeding rate using a deep-furrow plot drill set on 15-inch spacing. Base fertilizer was 50#N/acre pre-plant applied. Based on a spring soil test showing 177 lbs./acre available N, no additional N was applied for hard wheat protein based on expected yields. Fall seeding conditions produced good emergence and stand establishment.
3. Yields ranged from 26 to 67 bushels/acre. All yield values within the 10% LSD range of the highest yield are shown in bold and this included 7 of the 36 entries in this trial. The WSU variety 'Bauermeister' was the highest yielding named entry in the trial and was also highest yielding in the 5-year average at this site. There was moderately severe snow mold incidence and stand loss for susceptible varieties at this location. Snow mold stand assessment can be found on a separate table. Snow mold stand losses contributed to higher CV's at this location, but a wide range in agronomic values produced high probabilities of differences among entries. It is also probable that some plants at this site experienced damaging frost. There was a low amount of stripe rust potential at this location and fungicide was applied once with the herbicide application.
4. Test weights averaged 60.7 lbs./bu and ranged from 57.8 to 63.6 lbs./bu. Grain protein averaged 13.2% with a range of 11.7 to 15.6%. Plant height averaged 34 inches and there was no lodging.