

## 2013 WSU Variety Testing Hard Winter Wheat Trial, Walla Walla

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	LODGING (%)
NSA06-4663				95	54.1	11.8	31	138	0
Genesis				89	57.8	12.4	31	135	17
LCS Colonia				89	54.4	12.7	37	146	0
<i>OR2080156H</i>		116	99	89	<b>58.6</b>	11.8	37	140	20
LCS-Azimut		120	97	84	53.3	12.7	31	138	0
<i>JC1101</i>				81	<b>59.5</b>	11.1	35	142	60
Norwest 553	123	114	102	81	<b>58.5</b>	13.2	34	140	3
Keldin				80	<b>58.7</b>	10.6	35	139	40
DAS 2				80	<b>59.9</b>	12.2	38	139	38
WB-Arrowhead				78	<b>59.8</b>	11.6	40	140	32
Boundary	91	84	70	77	57.6	11.7	37	142	28
<i>OR2080236H</i>			100	77	56.5	12.9	37	145	10
<i>OR2080229H</i>			103	76	56.1	13.0	37	141	73
<i>WA 8184</i>				75	55.6	12.2	36	137	78
Eltan (SWW Check)	84	87	79	73	57.8	11.5	39	145	63
WA 8182				73	56.7	11.9	32	138	40
WB-Rimrock				73	56.8	11.3	36	140	63
DAS 1				72	57.1	12.7	36	137	70
AP503CL2				71	58.2	12.0	34	138	85
<i>OR2080227H</i>			103	71	55.1	12.1	37	140	32
Whetstone				69	55.2	13.2	38	138	48
<i>WA 8183</i>				68	56.2	11.9	35	139	68
WA 8186				67	<b>58.5</b>	11.4	38	145	30
JC1102				66	57.7	11.4	35	143	83
Bauermeister	82	77	68	65	54.3	12.6	38	145	88
JC1103				62	<b>58.8</b>	11.3	36	143	72
WA 8185				60	57.7	11.4	35	141	8
Finley	66	68	63	54	58.0	12.1	42	142	87
Farnum	63	61	58	54	55.2	13.8	43	146	90
Sprinter (WA 8118)		71	60	49	56.0	13.8	36	136	92
C.V. %	13	12	11	12	2.4	9.3	4	1	56
LSD (.10)	5	6	7	10	1.5	1.2	2	1	28
Average	86	90	83	73	57.0	12.1	36	141	47
Highest	123	120	103	95	59.9	13.8	43	146	92
Lowest	63	61	58	49	53.3	10.6	31	135	0

### Walla Walla Hard Winter Wheat – Preliminary Data

1. Grain yield in the 2013 Walla Walla hard winter wheat trial averaged 73 bushels/acre, 13 bushels/acre less than the 5-year average for this location. The Walla Walla nursery was located about six miles north of Walla Walla, WA (J. Beechinor, cooperator).
2. This nursery was seeded on 28 September, 2012 following fallow. Seed was placed at an 85#/acre seeding rate using a no-till plot drill equipped with cross-slot openers set on 10-inch spacing. Base fertilizer was 114#N/acre applied at planting. Based on a spring soil test showing 125 lbs./acre available N, 145 lbs./acre of additional N was applied for hard wheat protein based on expected yields. Fall seeding conditions were dry, but emergence and stand establishment were good after fall precipitation germinated the seed.
3. Yields ranged from 49 to 95 bushels/acre. All yield values within the 10% LSD range of the highest yield are shown in bold and this included 4 of the 30 entries in this trial. The variety 'Genesis' was the highest yielding named entry in the trial. 'Norwest 553' was the highest yielding variety that had five years of data averaged for this location. It is probable that some plants at this site experienced damaging frost. There was moderate, early stripe rust potential at this location and fungicides were applied twice resulting in minimal impact from stripe rust in the trial.
4. Test weights averaged 57.0 lbs./bu and ranged from 53.3 to 59.9 lbs./bu. Grain protein averaged 12.1% with a range of 10.6 to 13.8%. Plant height averaged 36 inches and lodging averaged 47%, but ranged from 0 to 92% and had a significant impact on yield for high lodging varieties.