

2013 WSU Variety Testing Hard Winter Wheat Trial, Pullman

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 (%)
WB-Arrowhead				145	62.7	12.1	43	159	0
WA 8186				138	61.7	11.4	41	161	0
<i>OR2080229H</i>			133	138	60.3	13.2	40	160	0
Keldin				138	62.8	12.7	40	158	0
LCS Colonia				138	58.0	12.5	40	161	0
NSA06-4663				137	59.7	11.5	34	158	0
LCS-Azimut		136	126	137	58.2	11.8	32	158	0
Norwest 553	135	141	127	137	62.8	13.1	33	159	0
<i>OR2080227H</i>			129	136	61.0	11.2	42	159	0
WB-Rimrock				136	61.6	12.1	41	158	0
<i>WA 8183</i>				135	60.5	12.6	41	159	0
<i>WA 8184</i>				135	61.2	12.5	43	158	0
JC1102				131	61.8	12.0	43	160	5
Boundary	130	135	125	131	61.4	12.6	39	159	0
DAS 2				130	62.2	13.1	43	157	0
Whetstone				128	63.5	13.6	40	157	0
<i>OR2080156H</i>		138	125	128	61.3	13.2	41	160	0
<i>OR2080236H</i>			123	127	59.1	12.0	42	162	0
WA 8185				127	61.9	12.8	37	160	0
<i>JC1101</i>				126	62.6	12.4	37	159	3
AP503CL2				124	64.1	13.4	39	158	0
Genesis				122	61.0	12.9	35	157	0
JC1103				120	61.6	12.3	41	161	8
WA 8182				118	60.3	13.0	35	158	0
DAS 1				117	61.4	13.4	45	157	13
Eltan (SWW Check)	127	129	113	107	57.9	12.5	42	165	45
Bauermeister	118	120	104	101	58.0	12.3	44	164	65
Sprinter (WA 8118)		125	105	97	60.5	15.5	46	157	57
Finley	111	114	96	87	62.2	13.9	51	159	90
Farnum	106	106	94	85	57.0	15.2	46	166	95
C.V. %	9	10	9	8	0.9	3.5	5	0	100
LSD (.10)	6	8	8	10	0.6	0.5	2	1	13
Average	122	133	117	125	60.9	12.8	41	159	13
Highest	135	167	133	145	64.1	15.5	51	166	95
Lowest	106	106	94	85	57.0	11.2	32	157	0

Pullman Hard Winter Wheat - Preliminary Data

1. Grain yield in the 2013 Pullman hard winter wheat trial averaged 125 bushels/acre, similar to the 5-year average for this location. The Pullman nursery was located about 3 miles southeast of Pullman, WA (R. Druffel, Cooperator).
2. This nursery was seeded on 8 October, 2012 following chickpeas. Seed was placed at an 85#/acre seeding rate using a double-disc plot drill set on 6-inch spacing. Base fertilizer was 120#N/acre pre-plant applied. Based on a spring soil test showing 263 lbs./acre available N, 50#N/acre was applied for hard wheat protein based on expected yields. Fall seeding conditions were dry but produced good emergence and stand establishment after fall precipitation.
3. Yields ranged from 85 to 145 bushels/acre. All yield values within the 10% LSD range of the highest yield are shown in bold and this included 12 of the 30 entries in this trial. 'WB-Arrowhead' was the highest yielding named hard entry in the trial and 'Norwest 553' was highest yielding in the 5-year average at this site. It is 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 twice, with the herbicide and at flagleaf.
4. Test weights averaged 60.9 lbs./bu and ranged from 57.0 to 64.1 lbs./bu. Grain protein averaged 12.8% with a range of 11.2 to 15.5%. Plant height averaged 41 inches and there was lodging among prone varieties.