

2014 WSU Variety Testing Hard Winter Wheat Trial, Horse Heaven

Variety Name <i>*Hard White Italicized</i>	5 YEAR AVERAGE (BU/A)	3 YEAR AVERAGE (BU/A)	2 YEAR AVERAGE (BU/A)	2014			
				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	PLANT HT
<i>IDO1101</i>	--	--	35	29	64.9	11.9	22
Eltan (SWW Check)	--	--	39	28	62.2	11.9	24
Boundary	--	--	37	28	61.1	12.4	24
WB-Arrowhead	--	--	36	28	64.7	12.0	26
WA 8179	--	--	38	27	62.5	12.5	27
WA 8181	--	--	36	27	62.2	12.4	25
WA 8180	--	--	38	27	63.9	11.8	29
Finley	--	--	32	27	64.7	12.1	27
Farnum	--	--	36	26	60.0	13.1	26
<i>WA 8158</i>	--	--	34	26	63.5	12.9	26
UI SRG	--	--	33	26	62.5	12.3	30
WA 8178	--	--	34	26	61.6	13.0	23
<i>UI Silver</i>	--	--	33	25	64.2	12.2	27
IDO1103	--	--	32	25	64.2	12.2	25
Whetstone	--	--	31	25	62.9	12.6	24
IDO816	--	--	33	25	63.3	11.9	26
LCS Colonia	--	--	36	25	59.7	11.8	23
<i>OR2100061H</i>	--	--		24	62.5	11.9	25
DAS 2	--	--	32	24	62.7	13.2	24
Keldin	--	--	36	24	64.1	12.1	25
DAS 1	--	--	32	24	60.1	13.0	23
WA 8208	--	--		24	58.1	12.1	25
WA 8197	--	--		24	64.0	12.3	25
Bauermeister	--	--	35	23	63.2	11.8	25
NSA10-7208	--	--		23	61.8	12.7	19
<i>OR2080156H</i>	--	--	31	23	63.4	13.4	25
Sprinter (WA 8118)	--	--	29	23	61.5	13.6	24
WA 8207	--	--		22	61.1	12.4	27
AP503 CL2	--	--	29	21	64.7	12.8	23
<i>WA 8184</i>	--	--		21	63.3	12.7	25
LCS Evina	--	--		21	59.7	13.8	23
LCS-Azimut	--	--	31	21	60.9	11.6	21
<i>OR2080236H</i>	--	--	33	19	61.3	13.0	22
LCS Allezy	--	--		19	59.1	13.1	22
<i>OR2100081H</i>	--	--		19	63.7	13.6	23
Norwest 553	--	--	32	17	64.0	13.5	23
C.V. %	--	--	11	10	1.3	2.8	5
LSD (.10)	--	--	3	2	0.9	0.4	1
Average	--	--	34	24	62.4	12.5	25
Highest	--	--	39	29	64.9	13.8	30
Lowest	--	--	29	17	58.1	11.6	19

Horse Heave Hard Winter Wheat – Preliminary Data

1. Grain yield in the 2014 Horse Heaven hard winter wheat trial averaged 24 bushels/acre, much less than the 2013 average of 43 bushels/acre. The Horse Heaven nursery was located about 12 miles east-southeast of Prosser, WA (M. Schmidt, cooperator).
2. This nursery was seeded on 3 October, 2013 into dry soil following chem-fallow. Seed was placed at a 50#/acre seeding rate using a deep-furrow plot drill set on 15-inch spacing. Fall seeding conditions were dry early and thus this plot was later seeded awaiting fall rainfall. Emergence over the winter and stand establishment were good. Because of the delayed seeding and even later emergence, the crop at this location was not as vulnerable to the December cold conditions that contributed to the winter injury on many varieties. Base fertilizer was 30#N/acre spring applied. Based on a spring soil test showing 141 lbs./acre available N, no additional N was applied for hard wheat protein based on expected yields.
3. Yields ranged from 17 bu/ac to 27 bu/ac. 'Eltan', a soft white check, was the highest yielding named entry in this trial. All yield values within the 10% LSD range of the highest yield are shown in bold and this included 8 of the 36 entries. There was no stripe rust at this location and no fungicide was applied.
4. Test weights averaged 62.4 lbs./bu and ranged from 58.1 to 64.9 lbs./bu. Grain protein averaged 12.5% with a range of 11.6 to 13.8% and was higher than the 11.0% average protein in 2013. Plant height averaged 27 inches with no lodging.