

2014 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)	2014					
				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	PLANT HT	HEAD DATE	LODGING (%)
NSA10-7208				125	59.8	11.4	35	153	0
SAS W3				119	57.3	11.7	45	157	7
LCS Colonia			127	117	56.2	11.6	36	157	0
LCS Allezy				116	56.9	11.4	35	156	0
Norwest 553	131	123	125	114	61.2	11.9	32	154	0
Keldin			126	114	61.3	11.9	37	155	0
<i>OR2100081H</i>				112	60.9	12.0	36	154	0
WA 8189				112	62.7	10.5	37	154	0
DAS 1			114	111	60.9	12.4	42	152	3
<i>WA 8184</i>			123	111	60.3	11.5	38	154	2
WB-Arrowhead			127	110	61.3	11.4	40	156	0
<i>OR2100061H</i>				110	59.5	10.9	35	154	0
SAS 4B				110	56.2	12.0	40	158	8
WB-Rimrock			123	109	60.6	11.6	36	155	0
<i>IDO1101</i>			117	109	61.6	11.3	33	155	0
Genesis			114	106	59.8	11.6	32	151	0
Sprinter (WA 8118)	116	105	101	106	60.7	12.8	47	152	33
DAS 2			118	106	61.2	12.3	40	153	0
LCS Evina				106	57.1	13.5	41	160	0
LCS-Azimut		119	121	105	55.2	11.0	31	154	0
WA 8210				104	60.7	11.5	37	159	7
<i>OR2080156H</i>	128	118	116	103	60.5	12.5	36	156	0
Whetstone			116	103	61.0	12.0	36	152	0
SAS W7				101	58.3	12.3	40	157	7
WA 8186			119	101	59.9	11.2	34	160	0
AP503 CL2			112	100	61.7	11.6	34	153	0
WA 8209				99	60.4	12.0	36	158	0
SAS W4				99	54.4	11.9	41	158	10
Finley	108	97	92	98	62.4	12.3	48	157	67
<i>OR2080236H</i>		115	112	97	57.7	12.3	35	159	0
Eltan (SWW Check)	117	107	102	97	59.9	11.2	39	162	42
Farnum	101	95	91	97	58.6	12.8	48	163	67
IDO1103			107	93	61.1	11.7	37	157	17
Bauermeister	109	100	97	93	59.2	11.6	42	162	55
Boundary	123	113	110	90	60.0	11.7	34	156	0
WA 8211				81	61.5	14.0	40	155	5
C.V. %	10	9	8	7	1.2	3.4	5	1	100
LSD (.10)	5	6	6	8	0.7	0.4	2	1	10
Average	117	109	114	105	59.7	11.9	38	156	9
Highest	131	123	127	125	62.7	14.0	48	163	67
Lowest	101	95	91	81	54.4	10.5	31	151	0

Pullman Hard Winter Wheat

1. Grain yield in the 2014 Pullman hard winter wheat trial averaged 105 bushels/acre, less than the five-year average of 117 bushels/acre. The Pullman nursery was located about six miles east of Pullman, WA (R. Druffel, Cooperator).
2. This nursery was seeded on 7 October, 2013 following chickpeas. Seed was placed at a 95#/acre seeding rate using a plot drill equipped with double-disc openers on 6-inch spacing. A spring soil test showing 191 #/acre available N and 188#N/acre was applied in the spring for grain protein based on projected yield. The entries survived cold December temperatures in this trial better than at many locations with only minor reduced stands evident in the spring.
3. Yields ranged from 81 bushels/acre to 125 bushels/acre. 'SAS W3', was the highest yielding named entry in this trial. 'Norwest 553' had the highest overall yield across five-years. All yield values within the 10% LSD range of the highest yield are shown in bold and this included 3 of the 36 entries. Although no stripe rust was observed, fungicide was applied at herbicide timing.
4. Test weights averaged 59.7 lbs/bu and ranged from 54.4 to 62.7 lbs/bu. Grain protein averaged 11.9% with a range of 10.5 to 14.0% and was lower than the 12.8% average protein in 2013. Plant height averaged 38 inches with lodging evident by some entries.