

2014 WSU Variety Testing Hard Winter Wheat Trial, Lind

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	SPRING STAND*
Eltan (SWW Check)	42	40	41	34	64.6	11.6	26	148	8
Boundary	40	39	37	34	64.8	12.4	26	144	8
WA 8207				31	63.7	12.8	30	147	7
Farnum	44	38	36	31	63.0	13.4	29	149	7
IDO816		35	33	31	64.9	13.4	29	144	7
UI SRG		34	35	31	65.2	14.0	30	143	8
<i>WA 8158</i>		33	35	30	64.1	14.1	26	149	5
WA 8178			34	30	64.0	13.1	27	148	7
<i>UI Silver</i>	36	33	34	29	66.3	12.9	28	143	7
WA 8179			35	28	65.7	13.3	28	146	7
Whetstone			33	28	65.5	13.8	26	143	5
WB-Arrowhead			37	28	65.5	13.7	28	143	7
WA 8181			34	27	64.2	12.9	25	149	6
DAS 1			33	26	63.1	13.8	26	143	7
IDO1103			32	26	65.1	13.6	26	144	8
<i>IDO1101</i>			35	25	66.0	13.5	24	143	7
AP503 CL2			30	25	66.3	14.6	26	143	8
WA 8197				25	64.6	12.9	26	149	6
Finley	39	35	33	24	66.5	13.8	27	145	7
Bauermeister	41	36	35	24	64.2	12.9	24	149	5
Keldin			32	23	65.1	14.6	25	146	6
LCS-Azimut		30	32	23	63.7	12.6	22	144	6
Sprinter	34	30	28	23	64.7	14.7	25	143	5
WA 8180			32	21	64.9	12.9	28	147	6
WA 8208				21	60.6	12.8	25	151	4
<i>OR2100061H</i>				21	64.9	12.9	24	147	3
DAS 2			28	21	64.6	14.3	23	145	5
NSA10-7208				20	63.6	13.4	22	146	3
LCS Colonia			29	17	59.5	12.9	22	151	3
<i>WA 8184</i>	-----	-----	-----	Low Stand, No Data	-----	-----	-----	-----	2
<i>OR2080156H</i>	-----	-----	-----	Low Stand, No Data	-----	-----	-----	-----	2
<i>OR2080236H</i>	-----	-----	-----	Low Stand, No Data	-----	-----	-----	-----	1
LCS Evina	-----	-----	-----	Low Stand, No Data	-----	-----	-----	-----	1
LCS Allezy	-----	-----	-----	Low Stand, No Data	-----	-----	-----	-----	1
<i>OR2100081H</i>	-----	-----	-----	Low Stand, No Data	-----	-----	-----	-----	1
Norwest 553	-----	-----	-----	Low Stand, No Data	-----	-----	-----	-----	1
C.V. %	12	12	10	14	1.3	2.2	7	1	15
LSD (.10)	2	2	2	3	0.8	0.3	2	1	1
Average	37	34	33	22	63.0	13.7	25	146	5
Highest	44	40	41	34	66.5	14.7	30	153	8
Lowest	36	30	28	17	59.5	11.6	22	143	1

*Spring Stand Rating: 0 (no plants) - 9 (full stand)

Lind Hard Winter Wheat

1. Grain yield in the 2014 Lind hard winter wheat trial averaged 22 bushels/acre, much less than the 2013 average of 37 bushels/acre. The Lind nursery was located on the WSU Lind Dryland Experiment Station about three miles NE of Lind, WA.
2. This nursery was seeded on 4 September, 2013 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 spring applied. Based on a spring soil test showing 122 lbs./acre available N, no additional N was applied for hard wheat protein based on expected yields. Fall seeding conditions were dry early but initial emergence and stand establishment were good for deep emerging varieties, but there was some variability especially for poorer emerging varieties. The crop emerged before fall dormancy and was vulnerable to the December and later cold conditions that contributed to winter injury on many varieties. Ratings of spring stands are presented in the data table as an estimate range from 0 (all appeared dead) to 9 (full survival). Fall establishment, cold tolerance and winter survival were factors in the spring stand values. Seven varieties with the lowest spring stand rating did not have adequate stands to evaluate further in the trial. The statistical CV of 14% is typical for low rainfall sites and historically for this location.
3. Yields ranged from 17 bushels/acre to 34 bushels/acre. 'Eltan', a soft white check, and 'Boundary' were 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 6 of the 36 entries. There was no stripe rust at this location and no fungicide was applied.
4. Test weights averaged 63.0 lbs/bu and ranged from 59.5 to 66.5 lbs/bu. Grain protein averaged 13.7% with a range of 11.6 to 14.7% and was lower than the 12.6% average protein in 2013. Plant height averaged 25 inches with no lodging.