

## 2013 WSU Variety Testing Hard Winter Wheat Trial Summary

### Precipitation Zone <12"

Variety Name	Connell	Horse Heaven	Lind	Ritzville	St. Andrews	Average
<b>Hard Red Winter</b>						
	<b>Yield (Bu/A)</b>					
WA 8119	38	43	43	54	64	<b>49</b>
Bauermeister	31	47	47	52	64	<b>48</b>
LCS Colonia	42	48	40	63	47	<b>48</b>
WA 8180	39	48	42	50	57	47
WA 8181	32	45	41	50	68	47
WA 8156	30	51	43	53	51	46
Farnum	37	46	40	43	60	45
Boundary	32	46	40	46	56	44
WA 8179	30	48	42	43	56	44
WA 8178	34	42	39	43	59	43
UI SRG	36	40	40	50	46	43
Keldin	26	47	41	46	51	42
LCS-Azmut	33	42	41	53	39	42
WA 8157	35	42	39	44	47	41
NSA06-4663	32	40	41	56	37	41
WB-Arrowhead	28	43	46	38	46	40
IDO816	38	41	36	45	40	40
Finley	25	37	42	44	48	39
Norwest 553	25	47	43	46	35	39
JC1102	28	36	39	41	49	39
JC1103	26	39	39	40	50	39
DAS 2	20	40	36	46	51	38
DAS 1	24	41	40	39	42	37
Genesis	16	42	38	43	46	37
Sprinter (WA 8118)	20	35	34	41	52	36
Whetstone	31	37	39	37	37	36
AP503CL2	31	37	35	33	43	36
<b>Hard White Winter</b>						
JC1101	34	42	45	51	60	47
WA 8158	37	43	41	52	55	45
WA 8159	39	41	45	45	53	44
UI Silver	33	41	39	42	55	42
OR2080227H	31	45	43	41	--- <sup>1</sup>	40 <sup>2</sup>
OR2080229H	34	45	39	41	33	38
OR2080156H	29	39	42	48	28	37
OR2080236H	28	47	44	38	26	36
<b>Soft White Winter</b>						
Eltan	31	50	47	60	62	<b>50</b>
	<b>C.V. %</b>	12	10	8	7	17
	<b>LSD (0.10)</b>	4	5	3	4	9
	<b>Average</b>	31	43	41	46	48
	<b>Highest</b>	42	51	47	63	68
	<b>Lowest</b>	16	35	34	33	26

Connell	Horse Heaven	Lind	Ritzville	St. Andrews	Average
<b>Test Wt (Lbs/Bu)</b>					
59.2	59.4	60.4	59.6	59.6	59.7
59.7	61.7	60.4	60.4	61.2	60.7
56.8	59.6	58.7	59.2	57.9	58.5
61.4	62.7	61.3	61.3	61.1	61.6
58.4	61.6	60.6	60.1	59.8	60.1
59.9	60.1	58.2	60.8	59.6	59.7
57.8	60.4	59.9	59.2	59.7	59.4
59.1	61.3	61.1	60.7	62.2	60.9
60.9	62.7	59.8	60.6	61.5	61.1
59.1	60.5	60.8	60.6	60.8	60.4
59.3	61.7	59.4	60.7	62.3	60.7
60.7	63.1	61.4	62.0	63.3	62.1
58.7	58.7	59.0	55.9	58.1	58.1
60.9	61.5	60.6	61.1	61.7	61.2
57.8	58.8	59.4	57.7	58.4	58.4
60.6	63.0	60.2	61.4	62.7	61.6
59.9	61.5	61.2	60.9	61.2	60.9
61.2	63.5	61.6	62.8	63.1	62.4
61.4	62.2	62.1	61.4	61.5	61.7
60.1	62.7	60.5	61.3	62.2	61.4
60.3	62.5	59.8	61.2	63.0	61.4
58.7	62.0	60.2	61.6	62.2	60.9
57.9	60.8	58.6	60.1	60.7	59.6
56.6	59.2	59.5	59.6	60.8	59.2
59.7	60.9	61.7	59.9	61.3	60.7
60.9	62.7	61.3	61.1	61.9	61.6
62.5	64.5	63.0	62.7	63.6	<b>63.3</b>
<b>Protein (%)</b>					
13.6	10.5	11.5	9.7	11.7	11.4
14.8	10.2	12.0	12.3	12.0	12.3
14.0	10.3	11.9	11.1	12.5	12.0
14.4	11.0	12.0	13.0	12.8	12.6
15.1	10.8	11.9	11.2	11.7	12.2
16.1	10.9	12.5	11.7	12.4	12.7
15.2	10.9	13.3	12.0	12.6	12.8
15.5	10.8	12.5	13.3	12.0	12.8
14.5	10.7	12.5	13.1	13.2	12.8
15.0	11.0	12.7	11.3	12.3	12.5
14.4	11.4	13.2	11.8	13.4	12.9
15.8	10.7	13.0	12.1	13.3	13.0
14.1	10.2	11.4	11.9	12.9	12.1
13.9	10.8	12.6	10.8	12.9	12.2
15.4	10.0	12.0	10.8	12.6	12.2
16.2	11.4	13.3	13.7	13.1	13.6
13.6	11.2	12.2	12.4	13.4	12.6
15.6	10.7	12.6	12.2	13.2	12.9
15.6	11.5	13.1	11.2	13.7	13.0
15.4	11.0	13.0	11.2	13.9	12.9
15.8	10.8	13.4	13.3	12.9	13.2
17.4	10.9	12.8	13.5	13.5	13.6
16.5	11.5	13.6	14.1	13.5	13.9
17.8	12.0	12.9	14.1	13.7	14.1
17.2	12.8	14.2	14.3	14.8	<b>14.6</b>
14.1	12.2	13.1	13.8	15.3	13.7
15.1	12.5	13.1	14.1	15.6	14.1
<b>Yield (Bu/A)</b>					
61.5	63.4	62.1	62.9	63.3	62.6
61.0	61.6	61.1	61.4	60.5	61.1
59.3	60.6	60.2	59.2	60.4	60.0
60.9	63.4	61.7	62.4	63.2	62.3
59.5	62.5	60.9	59.2	--- <sup>1</sup>	60.5 <sup>2</sup>
58.9	61.9	60.6	59.7	57.8	59.8
58.7	62.0	60.8	60.7	58.3	60.1
59.1	61.2	60.4	59.1	59.3	59.8
<b>Test Wt (Lbs/Bu)</b>					
60.1	61.8	60.5	59.9	61.8	60.8
0.9	1.1	1.2	0.8	1.1	1.1
0.6	0.7	0.8	0.5	0.7	0.3
59.7	61.6	60.5	60.5	60.7	60.6
62.5	64.5	63.0	62.9	63.6	63.3
56.6	58.7	58.2	55.9	57.8	58.1

Connell	Horse Heaven	Lind	Ritzville	St. Andrews	Average
<b>Protein (%)</b>					
13.6	10.5	11.5	9.7	11.7	11.4
14.8	10.2	12.0	12.3	12.0	12.3
14.0	10.3	11.9	11.1	12.5	12.0
14.4	11.0	12.0	13.0	12.8	12.6
15.1	10.8	11.9	11.2	11.7	12.2
16.1	10.9	12.5	11.7	12.4	12.7
15.2	10.9	13.3	12.0	12.6	12.8
15.5	10.8	12.5	13.3	12.0	12.8
14.5	10.7	12.5	13.1	13.2	12.8
15.0	11.0	12.7	11.3	12.3	12.5
14.4	11.4	13.2	11.8	13.4	12.9
15.8	10.7	13.0	12.1	13.3	13.0
14.1	10.2	11.4	11.9	12.9	12.1
13.9	10.8	12.6	10.8	12.9	12.2
15.4	10.0	12.0	10.8	12.6	12.2
16.2	11.4	13.3	13.7	13.1	13.6
13.6	11.2	12.2	12.4	13.4	12.6
15.6	10.7	12.6	12.2	13.2	12.9
15.6	11.5	13.1	11.2	13.7	13.0
15.4	11.0	13.0	11.2	13.9	12.9
15.8	10.8	13.4	13.3	12.9	13.2
17.4	10.9	12.8	13.5	13.5	13.6
16.5	11.5	13.6	14.1	13.5	13.9
17.8	12.0	12.9	14.1	13.7	14.1
17.2	12.8	14.2	14.3	14.8	<b>14.6</b>
14.1	12.2	13.1	13.8	15.3	13.7
15.1	12.5	13.1	14.1	15.6	14.1
<b>Yield (Bu/A)</b>					
13.9	11.2	11.7	12.3	13.6	12.5
14.3	10.6	12.4	10.5	13.5	12.3
14.4	10.6	12.3	12.2	12.8	12.5
14.1	10.3	12.1	12.7	12.6	12.4
15.3	10.1	12.1	12.3	--- <sup>1</sup>	12.4 <sup>2</sup>
15.2	11.2	13.0	12.5	14.8	13.3
16.4	11.3	13.3	12.4	15.5	13.8
16.0	10.6	13.1	13.5	12.3	13.1
<b>Test Wt (Lbs/Bu)</b>					
14.4	9.9	11.7	11.6	11.7	11.9
4.5	5.4	3.2	10.1	4.1	5.8
0.7	0.6	0.4	1.3	0.6	0.4
15.2	11.0	12.6	12.3	13.2	12.9
17.8	12.8	14.2	14.3	15.6	14.6
13.6	9.9	11.4	9.7	11.7	11.4

<sup>1</sup> - Variety Lost, No Data

<sup>2</sup> - 5 locations, Excludes St. Andrews Data

## 2013 WSU Hard Winter Wheat Trial Summary Precipitation Zone <12" – Preliminary Data

1. Hard red and white winter wheat grain yield across five locations and 24 entries in the <12" precipitation zone averaged 42 bushels/acre, 4 bushels/acre lower than the 2012 average of 46 bushels/acre and 20 bushels/acre lower than the 2011 average of 62 bushels/acre. The CV for the average data was 12 similar to the 2012 CV value. In general the 2013 trials had good fall establishment, but snow mold reduced stands differentially for trial entries at St. Andrews.
2. Yields among entries averaged across locations ranged from 35 to 50 bushels/acre and reflected a mostly average growing season. The soft white 'Eltan', and hard entries 'Bauermeister' and 'LCS Colonia' were the highest yielding named varieties averaged across locations and were the named varieties in the top 10% LSD range (2 bushels/acre) of the highest yield and are shown in bold. Stripe rust was not a factor in these trials.
3. Test weight averaged 60.6 lbs./bu across locations and entries and was higher than last year's 60.1 lbs./bu average. Grain protein averaged 12.9% and was higher than last year's 12.1% value.