



UNIVERSITY of NEBRASKA  
LINCOLN

## Box Butte County Rainfed 2019 Winter Wheat Variety Trial

Name	Source/ Brand	Means				
		Yield (bu/ac) <sup>a</sup>	Protein (%)	Test Weight (lbs/bu)	Height (in)	1000 Kernel Weight (grams)
<b>UNL- Experimental</b>	NE15420	119.6	13.3	55.7	32	40.6
<b>WestBred</b>	WB4699	113.6	12.6	53.9	28	35.9
<b>WestBred</b>	WB4418	111.4	13.8	54.4	33	36.8
<b>AgriMAXX</b>	AM Eastwood	111.2	13.7	55.0	32	40.1
<b>UNL- Experimental</b>	NHH144913-3 (Talon)	109.0	13.3	53.2	34	39.0
<b>WestBred</b>	WB4303	108.8	13.9	52.2	32	40.1
<b>CROPLAN</b>	CPCPX79-10	108.5	13.1	56.7	33	39.0
<b>Limagrain Cereal Seeds</b>	LCH14-52	106.7	13.6	56.3	32	46.0
<b>WestBred</b>	WB4595 (XB4520)	106.7	12.7	56.2	33	40.9
<b>WestBred</b>	WB-Grainfield	105.8	13.4	54.9	30	39.0
<b>AgriPro</b>	SY Wolf	104.2	13.7	56.4	35	42.0
<b>WestBred</b>	WB4269	104.1	12.4	53.5	30	38.9
<b>PlainsGold</b>	Monarch	100.8	12.7	54.6	33	38.6
<b>AgriPro</b>	SY Wolverine (Exp 40-1)	99.8	13.6	55.8	30	42.2
<b>AgriPro</b>	SY Sunrise	99.5	12.9	55.4	31	41.7
<b>Limagrain Cereal Seeds</b>	LCS Avenger	99.4	13.4	54.9	29	43.7
<b>Husker Genetics</b>	Wesley	98.4	14.4	54.1	31	43.2
<b>WestBred</b>	WB4792	98.4	13.1	55.2	33	40.4
<b>CROPLAN</b>	CP7909	97.1	12.4	56.6	27	42.5
<b>UNL- Experimental</b>	NE15420	119.6	13.3	55.7	32	40.6
<b>WestBred</b>	WB4699	113.6	12.6	53.9	28	35.9
<b>WestBred</b>	WB4418	111.4	13.8	54.4	33	36.8
<b>AgriMAXX</b>	AM Eastwood	111.2	13.7	55.0	32	40.1
<b>UNL- Experimental</b>	NHH144913-3 (Talon)	109.0	13.3	53.2	34	39.0
<b>WestBred</b>	WB4303	108.8	13.9	52.2	32	40.1
<b>CROPLAN</b>	CPCPX79-10	108.5	13.1	56.7	33	39.0
<b>Dyna-Gro</b>	Long Branch	96.7	13.1	55.1	32	41.6
<b>UNL- Experimental</b>	NE10478-1	96.1	13.8	56.1	26	41.9
<b>Wyoming</b>	Cowboy	95.7	12.8	54.7	38	40.3
<b>UNL- Experimental</b>	NE12561 (Siege)	93.8	14.1	55.2	32	37.8

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		Yield (bu/ac) <sup>a</sup>	Protein (%)	Test Weight (lbs/bu)	Height (in)	1000 Kernel Weight (grams)
<b>PlainsGold</b>	Canvas	90.7	13.1	54.7	33	37.6
<b>CROPLAN</b>	CP7869	86.2	13.7	54.9	28	43.1
<b>UNL- Experimental</b>	NE14434	86.0	13.5	54.4	23	42.0
<b>Husker Genetics</b>	Robidoux	80.8	14.0	51.9	26	37.9
	Standard Error	3.5	0.1	0.3	NA	0.8
	LSD <sup>b</sup>	8.2	0.3	0.7	NA	2.3
	Mean <sup>c</sup>	101.1	13.3	54.9	31.0	40.5
	CV <sup>d</sup>	11.2	4.5	2.4	NA	6.4
	Reps	5	3	5	1	3
<sup>a</sup> Wheat yield was adjusted to 12% moisture. <sup>b</sup> For differences between varieties that are equal to or greater than the LSD value, the chance that the difference is significant is 95%. <sup>c</sup> Mean value of all plots in the trial <sup>d</sup> Coefficient of Variation (CV) indicates the quality of a trial; a number lower than 15 indicates a high quality trial.						

**SITE INFORMATION**

Collaborator: Chris Cullan/Cullan Farms, Hemingford  
 Planting Date: 9/13/18  
 Harvest Date: 7/31/19  
 Fertilization: 50 lb/ac N+25 lb/ac P+10 lb/ac S starter applied; 20 lb/ac N streamed on in spring  
 Herbicide/Fungicide: 5 oz/ac LV6 applied in spring; Onset (tebuconazole) applied at flag leaf  
 Soil Type: Rosebud loam  
 GPS Coordinates: 42.248333, -103.019861

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