



2021 Dryland Winter Wheat Variety  
Performance Trial at Akron

Variety	Brand/Source	Market Class	Grain Yield <sup>a</sup>	Test Weight	Wheat Stem Sawfly Cutting	Heading	Plant Height	Protein
			bu/ac	lb/bu	avg score (1-9) <sup>b</sup>	days from trial avg <sup>c</sup>	in	percent
KS Silverado	Kansas Wheat Alliance	<b>HWW</b>	<b>97</b>	<b>63</b>	2	-2	37	12.1
*Langin Trt 1	Indigo Ag	HRW	<b>97</b>	59	4	-3	37	12.6
CO16D402W	Colorado State University exp.	<b>HWW</b>	<b>96</b>	58	3	-1	36	10.7
*Langin Trt 2	Indigo Ag	HRW	<b>95</b>	59	3	-3	35	11.3
CO18D076W	Colorado State University exp.	<b>HWW</b>	<b>94</b>	60	4	-1	41	13.1
EXP 303	Allegiant	HRW	<b>94</b>	<b>62</b>	1	2	36	10.2
Langin	PlainsGold	HRW	<b>93</b>	59	5	-1	34	13.0
Whistler	PlainsGold	HRW	92	58	5	2	36	12.0
Snowmass 2.0	PlainsGold	<b>HWW</b>	92	58	3	-3	36	11.7
KS Dallas	Kansas Wheat Alliance	HRW	92	61	4	1	38	12.5
LCS Julep	Limagrain Cereal Seeds	HRW	92	61	1	0	38	13.4
LCS Helix AX	Limagrain Cereal Seeds	HRW	92	61	1	-1	37	11.8
CO16SF032	Colorado State University exp.	HRW	91	61	1	-1	39	11.5
CO16SF027	Colorado State University exp.	HRW	91	61	1	0	39	12.3
Canvas	PlainsGold	HRW	91	60	2	1	37	13.1
Byrd	PlainsGold	HRW	91	59	2	-2	36	13.3
CO16D1487	Colorado State University exp.	HRW	91	61	2	1	38	9.5
LCS Atomic AX	Limagrain Cereal Seeds	HRW	90	58	1	-3	36	11.9
KS Hamilton	Kansas Wheat Alliance	HRW	90	58	1	0	36	13.6
WB4595	WestBred	HRW	89	61	2	2	38	12.4
WB4418	WestBred	HRW	89	60	1	0	34	11.2
Kivari AX	PlainsGold	HRW	88	57	5	0	38	12.7
EXP 301	Allegiant	HRW	88	60	2	-4	38	11.2
Brawl CL Plus	PlainsGold	<b>HRW</b>	88	61	1	-2	39	11.8
CO13007-F6R	Colorado State University exp.	<b>HRW</b>	88	60	2	-1	40	10.3
Monarch	PlainsGold	<b>HWW</b>	88	59	1	1	37	9.8
AP Solid	AgriPro	HRW	88	62	1	2	34	11.5
Crescent AX	PlainsGold	HRW	87	59	7	-2	40	12.5
Breck	PlainsGold	<b>HWW</b>	87	61	6	0	38	12.8
AP Roadrunner	AgriPro	HRW	87	59	2	1	39	12.1
CO18D297R	Colorado State University exp.	HRW	86	60	2	0	39	12.5
Fortify SF	PlainsGold	HRW	86	60	3	-1	39	11.9
CP7017AX	CROPLAN by WinField United	HRW	86	<b>57</b>	4	-1	36	12.3
CO18D007W	Colorado State University exp.	<b>HWW</b>	85	59	3	-3	35	12.8
Denali	PlainsGold	<b>HRW</b>	85	60	1	2	42	11.0
CO16SF067	Colorado State University exp.	HRW	84	61	1	0	40	11.6
Avery	PlainsGold	HRW	84	58	2	0	40	13.3
Lonerider	Oklahoma Genetics Inc.	HRW	84	61	1	2	37	11.1
Byrd CL Plus	PlainsGold	HRW	82	<b>59</b>	2	0	41	13.0
CP7050AX	CROPLAN by WinField United	HRW	82	62	1	-3	39	11.6
Guardian	PlainsGold	HRW	81	60	4	0	40	13.6
Hatcher	PlainsGold	HRW	81	60	2	2	38	10.5
CO16SF070	Colorado State University exp.	HRW	79	56	1	-1	35	12.2
Warhorse	Montana State University	HRW	75	60	1	5	38	13.1
<b>Average</b>			<b>88</b>	<b>60</b>	<b>2</b>	<b>May 31, 2021</b>	<b>38</b>	<b>12.0</b>
			<sup>d</sup> LSD (0.30)	4	1			
			<sup>d</sup> LSD (0.05)	8	1			

<sup>a</sup>Yield adjusted to 12% moisture and varieties ranked by yield (highest to lowest). Variety yields in bold are in the top LSD group (0.30).

<sup>b</sup>Wheat Stem Sawfly Cutting score: 1 equals no damage/cutting and 9 is severe damage/cutting, averaged across three replicates.

<sup>c</sup>Varieties with positive values headed later than the trial average and varieties with negative values headed earlier than the trial average.

<sup>d</sup>Farmers selecting a variety based on yield should use the LSD (0.30) to protect from false negative decisions. Companies or researchers may be interested in the LSD (0.05) to avoid false positive conclusions.

\*The Langin seed used in the Indigo Ag treatment was from a different source than the Langin seed by PlainsGold.

**Site Information**

Collaborator: USDA-ARS Central Great Plains Research Station

Harvest date: July 12, 2021

Planting date: September 15, 2020

Soil Type: Weld silt loam

GPS Coordinates: 40.14922, -103.14358

Trial Comments: Planted into good moisture, about 1.25" deep into proso millet stubble. Excellent stands and good fall growth. Moisture down to 4" in February. Trial received over 6.9" of rain in May, some hail damage to flag leaves and emerging heads. Wheat stem sawfly heavy in trial at end of May. Radar estimates showed the trial received 14.5" of precipitation and 3314 growing degree-days (GDD) (base 32°F) from Jan. 1st through July 12th, which was 4.5" above and 200 GDD below the 10-year averages, respectively.