



**2021 Dryland Winter Wheat Variety
Performance Trial at Genoa**

Variety	Brand/Source	Market Class	Grain Yield ^a	Test Weight	Plant Height	Protein
			bu/ac	lb/bu	in	percent
KS Silverado	Kansas Wheat Alliance	HWW	37	52	29	16.0
EXP 301	Allegiant	HRW	36	50	29	14.6
CO16D402W	Colorado State University exp.	HWW	35	47	29	17.4
LCS Atomic AX	Limagrain Cereal Seeds	HRW	35	49	27	15.3
Crescent AX	PlainsGold	HRW	34	49	30	15.9
CP7050AX	CROPLAN by WinField United	HRW	34	53	32	14.8
Avery	PlainsGold	HRW	33	49	29	15.3
Langin	PlainsGold	HRW	33	49	27	16.5
Kivari AX	PlainsGold	HRW	33	48	31	15.0
CO18D076W	Colorado State University exp.	HWW	33	48	30	17.4
CO18D297R	Colorado State University exp.	HRW	33	50	31	15.5
Brawl CL Plus	PlainsGold	HRW	33	49	34	15.8
Snowmass 2.0	PlainsGold	HWW	32	49	27	16.4
Monarch	PlainsGold	HWW	31	48	27	15.2
Fortify SF	PlainsGold	HRW	31	51	28	17.1
CP7017AX	CROPLAN by WinField United	HRW	31	50	28	15.8
Byrd CL Plus	PlainsGold	HRW	31	49	32	16.3
WB4595	WestBred	HRW	30	48	27	17.9
CO16D1487	Colorado State University exp.	HRW	30	51	29	13.9
Denali	PlainsGold	HRW	30	50	30	15.8
Canvas	PlainsGold	HRW	30	48	28	16.9
EXP 303	Allegiant	HRW	30	52	26	17.0
Breck	PlainsGold	HWW	30	49	30	16.3
CO13007-F6R	Colorado State University exp.	HRW	30	49	31	16.1
KS Hamilton	Kansas Wheat Alliance	HRW	30	48	27	14.7
CO18D007W	Colorado State University exp.	HWW	29	48	31	17.6
Byrd	PlainsGold	HRW	29	49	31	16.0
CO16SF032	Colorado State University exp.	HRW	29	49	30	16.0
KS Dallas	Kansas Wheat Alliance	HRW	29	50	27	18.0
LCS Helix AX	Limagrain Cereal Seeds	HRW	29	50	28	16.0
CO16SF027	Colorado State University exp.	HRW	29	49	27	-
AP Roadrunner	AgriPro	HRW	29	46	27	16.3
*Langin Trt 2	Indigo Ag	HRW	29	48	28	15.5
LCS Julep	Limagrain Cereal Seeds	HRW	29	51	27	16.7
AP Solid	AgriPro	HRW	28	51	27	16.2
Guardian	PlainsGold	HRW	28	49	26	18.5
CO16SF070	Colorado State University exp.	HRW	28	45	28	16.5
*Langin Trt 1	Indigo Ag	HRW	27	48	29	15.2
WB4418	WestBred	HRW	27	49	30	16.4
Whistler	PlainsGold	HRW	27	47	27	17.0
Hatcher	PlainsGold	HRW	24	44	28	16.4
CO16SF067	Colorado State University exp.	HRW	22	47	29	18.6
Warhorse	Montana State University	HRW	21	49	28	19.3
Lonerider	Oklahoma Genetics Inc.	HRW	21	46	27	17.6
	Average		30	49	29	16.3
	^b LSD (0.30)		2	1		
	^b LSD (0.05)		5	2		

^aYield adjusted to 12% moisture and varieties ranked by yield (highest to lowest). Variety yields in bold are in the top LSD group (0.30).

^bFarmers 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: Beedy Farms
 Harvest date: July 9, 2021
 Planting date: September 17, 2020
 Soil Type: Weld silt loam
 GPS Coordinates: 39.35612, -103.49209
 Trial Comments: Planted 1.75" deep into moisture and tilled ground. Very good stand establishment in the fall but minimal growth. Winter moisture down past 4" in soil. Even growth in early spring. Good precipitation through mid-May, but by mid-June trial was drought-stressed. Trial was sprayed for stripe rust in mid-June and Russian Wheat Aphid in late-May. Radar estimates showed the trial received 11" of precipitation and 3102 growing degree-days (GDD) (base 32°F) from Jan. 1st through July 9th, which was 1" above and 118 GDD below the 10-year average, respectively.

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