

2024 Dryland Winter Wheat Variety Performance Trial at Akron



CO19410R Colora AP Sunbird AgriP Monarch Plains Langin Plains CO20SFD020R Colora Avery Plains Snowmass 2.0 Plains CO18D297R Colora Whistler Plains AP Bigfoot AgriP Crescent AX Plains Steamboat Crop I CO200037R Colora CO18D007W Colora Byrd Plains CO19D304R Colora CO20D108R Colora CO20D108R Colora CO20SFD019R Colora CO20SFD019R Colora CO19D304R Colora CO20SFD019R Colora CO19D304R Colora CO20EFD019R Colora CO19D304R Colora CO20FD019R Colora CO19S129W Colora CO20SFD019R Colo	orado State University exp. orado State University exp. riPro insGold insGold	HRW HRW HRW	bu/ac 102.0	lb/bu	days from trial avg.b	scale (1-9)°	percent	in
CO19410R Colora AP Sunbird AgriPn Monarch Plains Langin Plains CO20SFD020R Colora Avery Plains Snowmass 2.0 Plains CO18D297R Colora Whistler Plains AP Bigfoot AgriPn Crescent AX Plains Fortify SF Plains Steamboat Crop I CO200037R Colora CO18D007W Colora CO18D007W Colora CO18D007W Colora CO19D304R Colora CO200108R Colora CO2005FD019R Colora CO19D108R Colora CO20SFD019R Colora CO19S129W Frenct CO19S04PA Colora Frenct CO19S04PA Colora CO19S04PA Colora CO20SF014W Colora Amplify SF Plains Guardian Plains KS Territory Kansa LCS Radar Limag Unidom SF Plains CO18035RA Colora	orado State University exp. riPro insGold	HRW	102.0				percent	111
AP Sunbird AgriPi Monarch Plains Langin Plains CO20SFD020R Colora Avery Plains Sonowmass 2.0 Plains CO18D297R Colora Whistler Plains Canvas Plains AP Bigfoot AgriPi Crescent AX Plains Steamboat Crop I CO200037R Colora CO18D007W Colora Steamboat Crop I CO200037R Colora CO18D007W Colora Byrd Plains CO19D304R Colora CO20D108R Colora CO20D108R Colora CO20D19R Colora CO20SFD019R Colora CO20SFD019R Colora CO20SFD019R Colora CO20SFD019R Colora CO20D2RC Colora Kivari AX Plains CO18042RA Colora Freck Plains Valley Frencl CP7017AX CROP Byrd CL Plus Plains NHH19668 Unive CO19393R Colora LCS Atomic AX Limag CO20SF014W Colora Amplify SF Plains KS Territory Kansa LCS Radar Limag LCS Radar LCS Radar LCS Radar LCS Rains LCS Hains Valing SF Plains KS Territory Kansa LCS Radar LCS Radar Limag UCS White Lightning Windom SF Plains Colora Valing SF Plains CO18035RA	riPro insGold			57.0	-1	1	10.2	38
Monarch Plains Langin Plains CO20SFD020R Colore Avery Plains CO18D297R Colore Whistler Plains Canvas Plains AP Bigfoot AgriP, Crescent AX Plains Steamboat Crop I CO200037R Colore CO18D007W Colore Byrd Plains CO19D304R Colore CO20D108R Colore CO200108R Colore CO20022RC Colore Kivari AX Plains CO19S129W Colore CO20022RC Colore Kivari AX Plains Valley Frencl CP7017AX CROP Byrd CL Plus Plains NHH19668 Unive CO19393R Colore CO20SF014W Colore CO20SF014W Colore CO20SF014W Colore Amplify SF Plains KS Territory Kansa LCS Radar Limag UCS White Lightning Windom SF Plains Valians Valians Valians CO18035RA Colore	insGold	HRW	102.0	60.0	1	1	11.0	36
Langin Plains CO20SFD020R Colora Avery Plains Snowmass 2.0 Plains CO18D297R Colora Whistler Plains Canvas Plains AP Bigfoot AgriPt Crescent AX Plains Fortify SF Plains Steamboat Crop I CO200037R Colora CO18D007W Colora Byrd Plains CO19D304R Colora CO20D108R Colora CO20D108R Colora CO20SFD019R CO20SFD019R Colora CO20		1117.11	101.0	58.5	-2	1	10.0	37
CO20SFD020R Colora Avery Plains Snowmass 2.0 Plains CO18D297R Colora Whistler Plains Canvas Plains AP Bigfoot AgriPt Crescent AX Plains Steamboat Crop I CO200037R Colora CO18D007W Colora Byrd Plains CO19D304R Colora CO20D108R Colora CO20D108R Colora CO20SFD019R Colora CO19393R Colora CO20SFD019R Colora CO19393R Colora CO19393R Colora CO19393R Colora CO20SF014W Colora Amplify SF Plains Guardian Plains KS Territory Kansa LCS Radar Limag UCS White Lightning Windom SF Plains CO18035RA Colora	nsGold	HWW	99.5	59.0	2	1	10.3	36
Avery Plains Snowmass 2.0 Plains CO18D297R Colore Whistler Plains Canvas Plains AP Bigfoot AgriPi Crescent AX Plains Steamboat Crop I CO200037R Colore CO200037R Colore CO18D007W Colore Byrd Plains CO19D304R Colore CO20D108R Colore CO20SFD019R Colore CO20SFD019R Colore CO19S129W Colore Kivari AX Plains CO18042RA Colore Kivari AX Plains CO18042RA Colore CP7017AX CROP Byrd CL Plus Plains NHH19668 Unive CO19333R Colore LCS Atomic AX Limag CO20SF014W Colore CO20SF014W Colore Amplify SF Plains Guardian Plains KS Territory Kansa LCS Radar Limag UCS White Lightning Windom SF Plains CO18035RA Colore		HRW	98.0	57.0	0	2	10.1	36
Avery Plains Snowmass 2.0 Plains CO18D297R Colore Whistler Plains Canvas Plains AP Bigfoot AgriPi Crescent AX Plains Steamboat Crop I CO200037R Colore CO200037R Colore CO18D007W Colore Byrd Plains CO19D304R Colore CO200108R Colore CO2005FD019R Colore CO2005FD019R Colore CO19S129W Colore CO19S129W Colore Kivari AX Plains CO18042RA Colore Kivari AX Plains CO18042RA Colore Byrd CL Plus Plains NHH19668 Unive CO193393R Colore CO205F014W Colore CO205F014W Colore Amplify SF Plains Guardian Plains KS Territory Kansa LCS Radar Limag UCS White Lightning Windom SF Plains CO18035RA Colore	orado State University exp.	HRW	98.0	59.5	0	1	10.3	36
CO18D297R Colors Whistler Plains Canvas Plains AP Bigfoot AgriPi Crescent AX Plains Steamboat Crop I CO200037R Colors CO18D007W Colors Byrd Plains CO19D304R Colors CO20D108R Colors CO20D108R Colors CO20D19R Colors CO20D2RC Colors CO20SFD019R Colors CO20ESPD019R Colors CO20ESPD019R Colors CO20FD019R Colors CO20SFD019R Colors CO193129W Colors CO193129W Colors CO190312PW Colors CO18042RA Colors Valley Frenct CP7017AX CROP Byrd CL Plus Plains Valley Frenct CO19393R Colors CO19393R Colors CO19393R Colors CO19393R Colors CO20SF014W Colors Amplify SF Plains Guardian Plains KS Territory Kansa LCS Radar Limag UCS White Lightning Windom SF Plains CO18035RA Colors	insGold	HRW	97.0	57.0	0	1	10.0	33
Whistler Plains Canvas Plains AP Bigfoot AgriP, Crescent AX Plains Steamboat Crop I CO200037R Colora CO18D007W Colora Byrd Plains CO19D304R Colora CO20D108R Colora CO20SFD019R Colora CO20SFD019R Colora CO20SFD019R Colora CO20SED019R CO20SED019R COLORA CO20SED019R CO20SED019R CO20SED019R COLORA CO20SED019R CO20SED	insGold	HWW	96.0	59.5	-3	2	10.2	37
Whistler Plains Canvas Plains AP Bigfoot AgriP, Crescent AX Plains Steamboat Crop I CO200037R Colora CO18D007W Colora Byrd Plains CO19D304R Colora CO20D108R Colora CO20SFD019R Colora CO20SFD019R Colora CO20SED CO20SED CO20SED COLORA CO20SED C	orado State University exp.	HRW	96.0	60.0	0	2	10.3	34
AP Bigfoot AgriPi Crescent AX Plains Fortify SF Plains Steamboat Crop I CO200037R Colora CO18D007W Colora Byrd Plains CO19D304R Colora CO200D108R Colora CO20SFD019R Colora CO20SFD019R Colora CO19S129W Colora Livari AX Plains CO18042RA Colora Breck Plains Frencl CP7017AX CROP Byrd CL Plus Plains NHH19668 Unive CO19393R Colora LCS Atomic AX Limag CO20SF014W Colora Amplify SF Plains Guardian Plains KS Territory Kansa LCS Radar Limag LCS White Lightning Limag Windom SF Plains CO18035RA Colora	insGold	HRW	95.5	56.5	2	1	10.8	37
Crescent AX Plains Fortify SF Plains Steamboat Crop I CO200037R Colora CO18D007W Colora Byrd Plains CO19D304R Colora CO20D108R Colora CO20D108R Colora CO19S129W Colora CO19S129W Colora CO19S129W Colora CO19S129W Colora CO18042RA Plains CO18042RA Colora Breck Plains Valley Frencl CP7017AX CROP Byrd CL Plus Plains NHH19668 Unive CO19393R Colora LCS Atomic AX Limag CO20SF014W Colora Amplify SF Plains KS Territory Kansa LCS Radar Limag UCS White Lightning Windom SF Plains CO18035RA Colora	insGold	HRW	95.0	57.5	1	1	10.8	38
Crescent AX Plains Fortify SF Plains Steamboat Crop I CO200037R Colora CO18D007W Colora Byrd Plains CO19D304R Colora CO20D108R Colora CO20D108R Colora CO19S129W Colora CO19S129W Colora CO19S129W Colora CO19S129W Colora CO18042RA Plains CO18042RA Colora Breck Plains Valley Frencl CP7017AX CROP Byrd CL Plus Plains NHH19668 Unive CO19393R Colora LCS Atomic AX Limag CO20SF014W Colora Amplify SF Plains KS Territory Kansa LCS Radar Limag UCS White Lightning Windom SF Plains CO18035RA Colora	iPro	HRW	94.0	60.0	-1	1	11.0	37
Fortify SF Plains Steamboat Crop I CO200037R Colora CO18D007W Colora Byrd Plains CO19D304R Colora CO20D108R Colora CO20SFD019R Colora CO19S129W Colora CO20022RC Colora Kivari AX Plains Valley French CP7017AX CROP Byrd CL Plus Plains NHH19668 Unive CO19393R Colora LCS Atomic AX Limag CO20SF014W Colora Amplify SF Plains Guardian Plains KS Territory Kansa LCS Radar Limag LCS White Lightning Limag Windom SF Plains Colora Colora	insGold	HRW	94.0	58.0	0	1	10.1	34
Steamboat Crop I CO200037R Colora CO18D007W Colora Byrd Plains CO19D304R Colora CO20D108R Colora CO20D108R Colora CO20SFD019R Colora CO20SED019R Colora CO20M2RC Colora Kivari AX Plains CO18042RA Colora Breck Plains Valley Frencl CP7017AX CROP Byrd CL Plus Plains NHH19668 Unive CO19393R Colora CC019393R Colora CC019393R Colora CC019393R Colora CC19393R Colora CC19393R Colora CC20SF014W Colora Amplify SF Plains Guardian Plains KS Territory Kansa LCS Radar Limag LCS Mahre Lightning Windom SF Plains CO18035RA Colora	insGold	HRW	94.0	58.0	0	1	10.9	40
CO200037R Colora CO18D007W Colora Byrd Plains CO19D304R Colora CO20D108R Colora CO20SFD019R Colora CO20SED019R Colora CO20022RC Colora Kivari AX Plains CO18042RA Colora Breck Plains Valley Frencl CP7017AX CROP Byrd CL Plus Plains NHH19668 Unive CO19393R Colora LCS Atomic AX Limag CO20SF014W Colora Amplify SF Plains Guardian Plains LCS Radar Limag LCS Made Limag Windom SF Plains CO18035RA Colora	p Research Foundation of WY	HRW	94.0	61.0	0	4	10.3	34
CO18D007W Colore Byrd Plains CO19D304R Colore CO20D108R Colore CO20SFD019R Colore CO20SFD019R Colore CO20SED019R Colore Kivari AX Plains CO18042RA Colore Breck Plains Valley Frencl CP7017AX CROP Byrd CL Plus Plains NHH19668 Unive CO19393R Colore LCS Atomic AX Limag CO20SF014W Colore Amplify SF Plains Guardian Plains KS Territory Kansa LCS Radar Limag UNIONO SF Plains Windom SF Plains CO18035RA Colore	orado State University exp.	HRW	94.0	57.5	-3	1	11.2	34
Byrd Plains CO19D304R Colora CO20D108R Colora CO20SFD019R Colora CO19S129W Colora CO20022RC Colora Kivari AX Plains CO18042RA Colora Breck Plains Valley Frencl CP7017AX CROP Byrd CL Plus Plains NHH19668 Unive CO193933R Colora LCS Atomic AX Limag CO20SF014W Colora Amplify SF Plains Guardian Plains KS Territory Kansa LCS Radar Limag LCS White Lightning Limag Windom SF Plains CO18035RA Colora	orado State University exp.	HWW	94.0	58.5	-1	1	10.3	37
CO19D304R Colora CO20D108R Colora CO20SFD019R Colora CO20SFD019R Colora CO20S2RC Colora Kivari AX Plains CO18042RA Colora Breck Plains Valley French CP7017AX CROP Byrd CL Plus Plains NHH19668 Unive CO19393R Colora LCS Atomic AX Limag CO20SF014W Colora Amplify SF Plains Guardian Plains KS Territory Kansa LCS Radar Limag LCS White Lightning Windom SF Plains CO18035RA Colora	, ,	HRW	93.5	58.0	-1	2	10.8	35
CO20D108R Colors CO20SFD019R Colors CO19S129W Colors CO20022RC Colors Kivari AX Plains CO18042RA Colors Breck Plains Valley Frencl CP7017AX CROP Byrd CL Plus Plains NHH19668 Unive CO19393R Colors LCS Atomic AX Limag CO20SF014W Colors Amplify SF Plains Guardian Plains KS Territory Kansa LCS Radar Limag LCS White Lightning Limag Windom SF Plains CO18035RA Colors	orado State University exp.	HRW	93.5	56.5	-2	1	11.0	37
CO20SFD019R Colors CO19S129W Colors CO20022RC Colors Kivari AX Plains CO18042RA Colors Breck Plains Valley Frencl CP7017AX CROP Byrd CL Plus Plains NHH19668 Unive CO19393R Colors LCS Atomic AX Limag CO20SF014W Colors Amplify SF Plains Guardian Plains KS Territory Kansa LCS Radar Limag LCS Radar Limag UCS White Lightning Windom SF Plains CO18035RA Colors	orado State University exp.	HRW	93.0	58.5	-2	1	10.5	37
CO19S129W Colore CO20022RC Colore Kivari AX Plains CO18042RA Colore Breck Plains Valley Frencl CP7017AX CROP Byrd CL Plus Plains NHH19668 Unive CO19393R Colore LCS Atomic AX Limag CO20SF014W Colore Amplify SF Plains Guardian Plains KS Territory Kansa LCS Radar Limag UCS White Lightning Windom SF Plains CO18035RA Colore	orado State University exp.	HRW	92.5	61.0	0	1	10.8	39
CO20022RC Colore Kivari AX Plains CO18042RA Colore Breck Plains Valley Frencl CP7017AX CROP Byrd CL Plus Plains NHH19668 Unive CO19393R Colore LCS Atomic AX Limag CO20SF014W Colore Amplify SF Plains Guardian Plains KS Territory Kansa LCS Radar Limag Vindom SF Plains CO18035RA Colore	orado State University exp.	HWW	91.0	59.0	0	2	11.1	35
Kivari AX Plains CO18042RA Colora Breck Plains Valley French CP7017AX CROP Byrd CL Plus Plains NHH19668 Unive CO19393R Colora LCS Atomic AX Limag CO20SF014W Colora Amplify SF Plains Guardian Plains KS Territory Kansa LCS Radar Limag LCS White Lightning Limag Windom SF Plains CO18035RA Colora	orado State University exp.	HRW	91.0	57.0	4	1	10.7	36
CO18042RA Colore Breck Plains Valley Frencl CP7017AX CROP Byrd CL Plus Plains NHH19668 Unive CO19393R Colore LCS Atomic AX Limag CO20SF014W Colore Amplify SF Plains Guardian Plains KS Territory Kansa LCS Radar Limag LCS White Lightning Windom SF Plains CO18035RA Colore	· 1	HRW	90.5	55.0	0	4	9.9	33
Breck Plains Valley French CP7017AX CROP Byrd CL Plus Plains NHH19668 Unive CO19393R Colore LCS Atomic AX Limag CO20SF014W Colore Amplify SF Plains Guardian Plains KS Territory Kansa LCS Radar Limag LCS White Lightning Limag Windom SF Plains CO18035RA Colore	orado State University exp.	HRW	90.0	57.0	0	1	10.3	35
Valley French CP7017AX CROP Byrd CL Plus Plains NHH19668 Unive CO19393R Colora LCS Atomic AX Limag CO20SF014W Colora Amplify SF Plains Guardian Plains KS Territory Kansa LCS Radar Limag LCS White Lightning Windom SF Plains CO18035RA Colora	• •	HWW	90.0	58.0	0	1	10.3	35
CP7017AX CROP Byrd CL Plus Plains NHH19668 Univer CO19393R Colora LCS Atomic AX Limag CO20SF014W Colora Amplify SF Plains Guardian Plains KS Territory Kansa LCS Radar Limag UCS White Lightning Vindom SF Plains CO18035RA Colora	nchman Valley Coop	HWW	90.0	58.5	-2	1	10.2	40
Byrd CL Plus Plains NHH19668 Unive CO19393R Colora LCS Atomic AX Limag CO20SF014W Colora Amplify SF Plains Guardian Plains KS Territory Kansa LCS Radar Limag LCS White Lightning Unidom SF Plains CO18035RA Colora		HRW	89.5	57.5	-2 -1	1	10.1	36
NHH19668 Unive CO19393R Colora LCS Atomic AX Limag CO20SF014W Colora Amplify SF Plains Guardian Plains KS Territory Kansa LCS Radar Limag LCS White Lightning Unidom SF Plains CO18035RA Colora		HRW	89.0	57.5	-1 -2	2	10.9	32
CO19393R Colora LCS Atomic AX Limag CO20SF014W Colora Amplify SF Plains Guardian Plains KS Territory Kansa LCS Radar Limag LCS White Lightning Limag Windom SF Plains CO18035RA Colora		HRW	88.0	60.0	-2 1	2		34
LCS Atomic AX Limag CO20SF014W Colora Amplify SF Plains Guardian Plains KS Territory Kansa LCS Radar Limag LCS White Lightning Limag Windom SF Plains CO18035RA Colora	versity of Nebraska-Lincoln exp.	HRW	88.0	59.0	0	5	11.7 10.5	35
CO20SF014W Colors Amplify SF Plains Guardian Plains KS Territory Kansa LCS Radar Limag LCS White Lightning Windom SF Plains CO18035RA Colors	orado State University exp.					5		
Amplify SF Plains Guardian Plains KS Territory Kansa LCS Radar Limag UCS White Lightning Limag Windom SF Plains CO18035RA Colora	-	HRW	88.0	59.0	4	1	10.9	33
Guardian Plains KS Territory Kansa LCS Radar Limag LCS White Lightning Limag Windom SF Plains CO18035RA Colora	orado State University exp.	HWW	86.5	53.5	-2		10.6	37
KS Territory Kansa LCS Radar Limag LCS White Lightning Limag Windom SF Plains CO18035RA Colora		HRW	86.5	58.5	3	5	10.7	35
LCS Radar Limag LCS White Lightning Limag Windom SF Plains CO18035RA Colora		HRW	86.0	58.5		· ·	11.2	35
LCS White Lightning Limag Windom SF Plains CO18035RA Colora	nsas Wheat Alliance	HRW	85.5	56.5	1	1	11.1	35
Windom SF Plains CO18035RA Colora	C	HRW	84.5	58.0	0	1	11.5	34
CO18035RA Colora		HWW	84.0	60.0	0	2	11.5	37
		HWW	83.0	52.5	2	2	11.7	33
	orado State University exp.	HRW	81.5	58.5	-1	4	10.2	34
	orado State University exp.	HRW	81.0	54.5	-2	4	10.9	34
AP Solid AgriPi		HRW	79.5	58.5	-1	1	11.0	35
	OPLAN	HRW	77.5	56.0	1	2	11.3	37
	orado State University exp.	HRW	75.0	54.0	2	1	11.7	37
	orado State University exp.	HRW	70.0	55.0	0	1	11.5	36
LCS Steel AX Limag	nagrain	HRW	69.0	57.5	-1	5	10.7	35
		Average dLSD (0.30)		58.0 0.5	May 26, 2024	2	10.7	36

^dLSD (0.30) 3.6 0.5 ^dLSD (0.05) 6.9 0.9 Coeffecient of Variation (CV) 5.1

Site Information

Trial Comments:

Collaborator: USDA-ARS Central Great Plains Research Center

Harvest date: July 14, 2024
Planting date: September 26, 2023
Soil Type: Weld silt loam
GPS Coordinates: 40.14928, -103.14352

Planted 1" deep into moisture and millet residue. Fall emergence was good, although minimal growth occurred. Timely rainfall received in spring and early summer. Moderate wheat stem sawfly pressure, although minimal lodging was noted in the trial at harvest. Weather station showed the

 $trial\ received\ 10.7"\ of\ precipitation\ and\ 3,854\ growing\ degree-days\ (GDD)\ (base\ 32^{\circ}F)\ from\ January\ 1st\ through\ July\ 3rd.$

 $The \ data \ included \ in \ this \ table \ may \ not \ be \ republished \ without \ permission. \ Contact \ Sally \ Jones-Diamond \ (sally.jones@colostate.edu)$

^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).

^bVarieties with positive values headed later than the trial average and varieties with negative values headed earlier than the trial average.

eYellowing disease score reflects overall reaction (1=resistant to 9=susceptible) of varieties to this disease that seems to be associated with Triticum mosaic virus (TriMV).

^dFarmers selecting a variety based on yield should use the LSD (.30) to protect themselves from false negative conclusions (concluding varieties are the same when they are actually different). Companies or researchers may use the LSD (.05) to avoid false positive conclusions (concluding varieties are different when they are actually the same).