

2024 Dryland Winter Forage Variety Performance Trials at Akron, Orchard, and Yellow Jacket

Brand/Source	Variety	Forage Species ^b	Forage Harvest			Grain Harvest			Forage Quality ^a								
			Dry Matter Yield	Moisture	Harvest Date	Yield	Test Weight	Protein	CP	RFQ	aNDFom	NDFD30	NDFD240	TDN	NEL	NEG	Milk/Ton
			ton/ac	% at harvest		lb/ac	lb/bu	percent	percent				Mcal/cwt			lb/ton	
Akron																	
TriCal	719 Flex Triticale	T	5.5	75	18-May	3676	43	13	10.5	141	58	59	75	60	61	33	2725
Montana State Univ.	Cash	W	4.7	74	28-May	3095	50	13	10.5	160	54	58	74	63	66	37	3007
Montana State Univ.	MTF1435	W	4.6	74	28-May	3809	51	13	10.0	152	56	60	76	61	64	35	2865
AgriPro	AP Baldy	W	4.3	72	28-May	3922	55	12	9.6	155	51	56	74	64	67	36	3030
AgriPro	SY Monument	W	3.7	71	24-May	3463	56	12	10.9	170	48	58	73	65	69	40	3207
PlainsGold	Ray	W	3.7	73	31-May	4112	51	13	9.3	153	51	55	75	65	67	36	3028
KWS Cereals	KWS AVIATOR	HR	3.7	80	13-May	3945	53	10	12.0	172	54	62	78	63	67	41	3114
KWS Cereals	KWS PROGAS	HR	3.5	79	13-May	4979	53	10	10.6	161	58	61	77	61	65	38	2990
Oklahoma Genetics, Inc	OK Corral	W	3.5	70	23-May	4343	54	12	11.2	188	48	67	80	66	72	46	3452
Watley Seed	TAM 204	W	3.2	73	18-May	3876	52	12	10.8	186	46	63	77	67	72	45	3419
PlainsGold	Amplify SF	W	3.1	75	18-May	4468	59	11	9.8	155	50	59	75	65	66	37	3007
Montana State Univ.	Willow Creek	W	-	-	-	2045	53	15	11.2	146	54	61	75	61	63	36	2818
	Average		3.9	74	22-May	3811	52	12	10.5	162	52	60	76	63	66	38	3055
	LSD (0.30) ^c		0.5			272	1										
	LSD (0.05) ^c		1.0			528	2										
	Coefficient of Variation (CV)		9.6			5.3	2.0										

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			ton/ac	% at harvest		lb/ac	lb/bu	percent	percent				Mcal/cwt			lb/ton	
Orchard																	
Montana State Univ.	MTF1435	W	3.8	66	31-May	2806	56	14.0	16.1	179	48	66	81	68	68	44	3199
PlainsGold	Ray	W	3.7	67	31-May	2904	52	13.7	14.2	164	50	65	82	66	63	38	2865
PlainsGold	Amplify SF	W	3.3	69	20-May	3111	58	12.7	15.9	197	48	70	84	68	71	49	3425
AgriPro	AP Baldy	W	3.1	70	23-May	3005	58	13.3	14.7	214	46	73	86	70	74	52	3674
Oklahoma Genetics, Inc	OK Corral	W	3.1	71	20-May	3042	51	13.4	17.0	192	47	70	84	69	71	49	3443
Montana State Univ.	Willow Creek	W	2.9	67	31-May	1205	54	15.7	16.7	162	49	62	78	66	65	41	2995
AgriPro	SY Monument	W	2.8	73	20-May	3248	56	12.2	17.9	201	46	72	85	68	72	51	3494
Watley Seed	TAM 204	W	2.5	72	20-May	3085	52	13.4	15.0	189	48	67	82	67	70	46	3312
	Average		3.1	69	24-May	2801	55	13.6	15.9	187	48	68	83	68	69	46	3301
	LSD (0.30) ^c		0.4			251	0.7										
	LSD (0.05) ^c		0.8			500	1.4										
	Coefficient of Variation (CV)		7.9			8.8	2.0										

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			Dry Matter Yield	Moisture	Harvest Date	Yield	Test Weight	Protein	CP	RFQ	aNDFom	NDFD30	NDFD240	TDN	NEL	NEG	Milk/Ton
			ton/ac	% at harvest		lb/ac	lb/bu	percent	percent				Mcal/cwt			lb/ton	
Yellow Jacket																	
Watley Seed	TAM 204	W	1.7	60	6-Jun	-	-	-	11.7	163	50	61	79	66	66	38	3024
PlainsGold	Amplify SF	W	1.7	59	6-Jun	-	-	-	12.0	188	53	68	83	66	70	46	3349
Oklahoma Genetics, Inc	OK Corral	W	1.7	58	6-Jun	-	-	-	12.7	182	49	63	80	67	70	43	3279
Montana State Univ.	MTF1435	W	1.6	65	6-Jun	-	-	-	11.6	166	53	63	77	63	65	39	2993
PlainsGold	Ray	W	1.4	67	6-Jun	-	-	-	14.5	220	45	78	89	69	75	54	3733
Montana State Univ.	Willow Creek	W	1.3	66	6-Jun	-	-	-	14.9	182	45	66	81	67	68	44	3225
	Average		1.5	62	6-Jun				12.9	184	49	66	82	66	69	44	3267
	LSD (0.30) ^c		0.1														
	LSD (0.05) ^c		0.2														
	Coefficient of Variation (CV)		8.7														

^aAll forage quality analyses results are dry basis values. CP=crude protein; RFQ=relative feed quality; aNDFom=ash free neutral detergent fiber; NDFD30=neutral detergent fiber digestibility at 30 hours; NDFD240=neutral detergent fiber digestibility at 240 hours;TDN=total digestible nutrients, NEL=net energy for lactation; NEG=net energy gain; and Milk/ton=predicted amount of milk produced per ton of dry matter calculated using MILK2013.

^bForage Species: HR=Hybrid Rye, T=Triticale, and W=Wheat

^cIf the difference between two variety yields equals or exceeds the LSD value, the difference is significant. 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.

Trials were harvested for grain on July 2 (Orchard), and July 15 (Akron).

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