

Oat Silage RVTs - Westlock2023

Variety	Yield (% of CDC Baler)	Crude Protein (%DM)	Acid Detergent Fibre (%DM)	Neutral Detergent Fibre (%DM)	Total Digestible Nutrients (%DM)	Starch (%DM)	Water Soluble Carbohydrates (%DM)	True Invitro Digestibility - 30	Calcium (%DM)	Phosphorous (%DM)	Potassium (%DM)	Magnesium (%DM)
CS CAMDEN	101% a	11.1 ab	36.8 a	57.8 a	59.3 a	14.0 a	3.2 b	63.9 a	0.52 a	0.28 a	2.13 a	0.23 a
CDC BALER	100% a	11.8 a	39.8 a	63.8 a	56.2 a	6.1 cd	6.1 a	60.8 a	0.52 a	0.26 a	2.06 a	0.18 cd
AAC DOUGLAS	98% ab	10.6 b	39.5 a	62.9 a	56.4 a	9.9 bc	4.2 b	62.5 a	0.45 a	0.28 a	2.21 a	0.19 bcd
CDC ARBORG	92% abc	11.4 a	39.4 a	62.6 a	56.5 a	10.9 ab	2.6 b	61.0 a	0.46 a	0.29 a	2.13 a	0.21 abc
CDC ENDURE	87% bc	11.7 a	37.7 a	59.6 a	58.4 a	11.7 ab	3.9 b	65.0 a	0.50 a	0.29 a	2.12 a	0.22 ab
ORe BOOST (OT6037)	87% c	11.6 a	41.4 a	67.6 a	54.5 a	4.6 d	4.1 b	59.1 a	0.50 a	0.27 a	2.14 a	0.17 d
AAC WESLEY	83% c	10.5 b	38.0 a	60.7 a	58.1 a	12.3 ab	3.8 b	64.5 a	0.45 a	0.28 a	2.14 a	0.21 abc
Average	15788 g/plot	11.2 %DM	38.9 %DM	62.1 %DM	57.0 %DM	9.9 %DM	4.0 %DM	62.4 %DM	0.49 %DM	0.28 %DM	2.13 %DM	0.20 %DM
ANOVA p-value	0.0146 *	0.0149 *	0.2780 NS	0.1903 NS	0.2789 NS	0.0026 **	0.0331 *	0.3941 NS	0.1652 NS	0.0856 NS	0.9463 NS	0.0243 *
CV%	6.49%	3.85%	5.69%	6.69%	4.15%	22.77%	25.39%	5.68%	8.51%	3.48%	7.02%	9.56%

Single site years of data are often an unreliable indicator of variety performance.

For publication in the Alberta Seed Guide, at least six site years over two growing seasons are required prior to reporting yield data.

Please reference the January 2024 - Alberta Seed Guide for multi-site year data.

Values followed by different letters (i.e., a,b,c) are statistically different.

Values followed by the same letter are NOT statistically different (i.e., a = ab, or abc = bc).

ANOVA p-value indicates statistical significance. If the p-value is less than 0.05, then there are significant differences in the described trait.

i.e., ANOVA p-value of <0.0001 for yield means that at least one variety has a statistically different yield.

i.e., ANOVA p-value of > 0.05 means there are no statistical differences in the trait between any of the varieties.

Remarks: Yield is adjusted to 65% moisture. *Oat silage trials are harvested when 75% of the varieties are at milk stage, BBCH 75. However, the 2023 trials contained varieties with a wide range of development, with some varieties showing a week or more difference in growth stages. This results in some of the later maturing varieties having lower yield and altered quality. Nutritional data is presented on a dry matter basis (%DM), and was tested on forage intended for silage, not ensiled samples.*