

TRIAL SUMMARY

Crop Type: Corn Silage

Year: 2021

Location: Elk Creek Dairy Farming Ltd, Coaldale, AB

CANTERRA SEEDS Contact: Darren Nykoliation

Planting Date: May 12, 2021

Harvest Date: Sept 18, 2021

Trial Type: Field Scale

Row Width: 15 inches

PRIDE Seed Contact: Sara Meidlinger



COMPANY	VARIETY	CHU	RM	Moisture %	DM %	Protein %	ADF %	NDF %	STARCH %	TDN %	NE/g	NE/l	TONS/AC ACTUAL	TONS/AC AT 65%	DRY Yield RANK	MILK LB/AC	MILK RANK	BEEF LB/AC	BEEF RANK
PRIDE Seeds	A4705HMRR EDF 34K POP	2300	76	71.3	28.7	7.7	28.2	47.1	22.7	61	0.71	1.40	27.8	22.77	4	23,734	1	1,621	2
PRIDE Seeds	A4939G2 RIB 34K POP	2400	81	69.8	30.2	6.3	34.1	55.5	17.4	56	0.54	1.21	25.6	22.08	5	19,074	8	1,443	7
PRIDE Seeds	AS1047RR EDF 34K POP	2450	81	73.4	26.6	6.4	31.5	54.2	19.1	59	0.63	1.28	30.2	22.93	3	22,708	3	1,578	3
PRIDE Seeds	AS1047RR EDF 38K POP	2450	81	69.6	30.4	6.8	33.7	55.6	13.3	55	0.51	1.17	29.6	25.73	1	22,863	2	1,651	1
PRIDE Seeds	A4939G2 RIB 38K POP	2400	81	71.7	28.3	8.1	30.4	50.7	20.8	59	0.66	1.33	26.1	21.13	8	21,428	5	1,455	6
PRIDE Seeds	A4705HMRR EDF 38K POP	2300	76	73.7	26.3	8.8	27.6	47.2	20.7	59	0.66	1.36	29.2	21.93	6	22,597	4	1,510	4
PRIDE Seeds	AS1047RR EDF 24K POP	2450	81	75.1	24.9	7.1	33.4	53.6	13.9	55	0.51	1.20	32.8	23.34	2	20,272	6	1,497	5
PRIDE Seeds	A4939G2 RIB 24K POP	2400	81	73.1	26.9	6.9	32.5	53.9	16.5	56	0.56	1.23	27.0	20.75	9	18,748	9	1,356	9
PRIDE Seeds	A4705HMRR EDF 24K POP	2300	76	74.4	25.6	7.7	32.5	52.9	13.9	56	0.57	1.24	29.5	21.61	7	19,291	7	1,412	8

Nutrient	Target Value	Definitions	Reasoning
Dry Matter (DM)	30-40%	The percentage of forage that is not water	Excessive moisture content can cause spoilage and decrease silage quality. Too dry is usually associated with reduced digestibility and energy content.
Crude Protein (CP)	7-9%	Total amount of nitrogen (N) in a forage.	High protein is desirable. Low protein may be caused by under fertilization, nitrogen competition, or improper harvesting and/or storage.
Acid Detergent Fiber (ADF)	20-33%	Percent of highly indigestible material in a forage. Comprised of cellulose, lignin, cutin, silica, pectin, and unavailable protein.	High ADF content is an issue for the same reasons as high NDF content. ADF is negatively correlated to digestibility and energy
Neutral Detergent Fiber (NDF)	35-55%	Partially available to animals. Percent of cell wall material in a forage; cellulose, hemicelluloses, Lignin, cutin, and unavailable protein.	NDF values will generally increase with low grain silage, stress, or immaturity. NDF is an inverse predictor of intake. (higher NDF equals lower intake and visa versa)
Starch	>28%	Form of carbohydrates stored in plants. It is the specific polysaccharide of many glucose subunits.	Usually higher content is better. If starch levels are <28% this usually indicates the silage was cut early or the crop was stressed.
Total Digestible Nutrients (TDN)	67-74%	Sum of all digestible organic nutrients that are available to the animal, as a % or DM.	Could be used to express the energy value of the corn silage.
Net Energy for Lactation (NEl)	>0.64 Mcal/lb	An estimate of the energy value of a feed used for milk production	Mega calories of energy for lactation. Higher values usually indicate a better-quality corn silage.
Net Energy for Gain (NEg)	0.4-0.5 Mcal/lb	An estimate of the energy for weight gain. Energy above maintenance.	Mega calories of energy for gain.