

TRIAL SUMMARY

Crop Type: Corn Silage

Year: 2021

Location: Southwood Stock Farms, Vauxhall, AB

CANTERRA SEEDS Contact: Darren Nykolation

Planting Date: May 6, 2021

Harvest Date: Sept 17, 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	AS1047RR EDF	2450	81	69.9	30.1	7.8	27	48.5	19.5	58	0.64	1.33	23.1	19.91	4	20,399	7	1,347	9
PRIDE Seeds	AS1027RR EDF	2425	80	67.3	32.7	7.8	27.8	48.7	20.0	59	0.66	1.35	19.8	18.53	13	18,728	14	1,275	12
Pioneer	P7861AM	2250	78	66.7	33.3	8.0	26.5	48.3	24.1	62	0.73	1.41	18.9	17.94	16	19,322	11	1,298	11
PRIDE Seeds	A4939G2 RIB	2400	81	63.1	36.9	8.0	22.4	41.7	33.8	63	0.79	1.51	16.2	17.09	18	19,017	13	1,256	14
PRIDE Seeds	XP3229RR EDF	XP	XP	71.8	28.2	8.6	30.5	50.6	12.2	53	0.47	1.18	24.1	19.38	7	17,144	18	1,199	18
PRIDE Seeds	A5432G2 RIB	2500	83	70.6	29.4	8.7	28.4	50	18.2	59	0.64	1.32	21.5	18.04	15	17,860	16	1,242	15
PRIDE Seeds	AS1047RR EDF	2450	81	69.7	30.3	8.6	25.8	46	19.9	59	0.66	1.36	24.5	21.22	1	21,652	3	1,461	1
Maizex	MS7733DBR	2350	77	64.3	35.7	8.5	24.6	44.2	28.0	65	0.87	1.55	18.3	18.71	11	22,471	1	1,419	3
Maizex	MZ2699DBR	2450	83	70.2	29.8	9.1	24.3	43.7	24.8	61	0.74	1.45	23.3	19.86	5	21,592	4	1,414	4
Maizex	MS8260			73.8	26.2	7.9	29.3	49.2	17.0	56	0.56	1.27	25.2	18.87	10	17,658	17	1,233	16
Proven	PV 62485 RIB	2550		70	30	8.2	22.9	41.5	28.6	62	0.78	1.50	22.4	19.19	8	21,148	6	1,388	7
Proven	PV 62384 RIB	2500		71.1	28.9	8.3	27.7	49.6	18.5	58	0.61	1.31	22.0	18.13	14	18,030	15	1,227	17
Proven	PV 61177 SRR	2200		67.4	32.6	6.9	28.7	49.6	22.0	60	0.68	1.36	21.5	20.06	3	20,386	8	1,404	5

DEKALB	DKC 33-37 RIB	2400	83	69.2	30.8	8.4	25.2	45.7	24.1	61	0.71	1.41	22.4	19.67	6	21,173	5	1,400	6
DEKALB	DKC34-57 RIB	2575	84	71.5	28.5	8.3	26.3	46.5	23.3	60	0.69	1.39	22.8	18.60	12	19,582	10	1,302	10
DEKALB	DKC35-37 RIB	2575	85	69.4	30.6	7.4	23.4	42.1	29.9	62	0.77	1.49	23.1	20.16	2	22,025	2	1,458	2
DEKALB	EXP86-21	EXP	EXP	70.4	29.6	7.6	23.6	42.2	27.5	61	0.72	1.45	22.5	19.01	9	20,066	9	1,353	8
DEKALB	DKC37-73RIB SS	2650	87	71.9	28.1	8.6	25.5	45.4	24.9	61	0.73	1.43	22.2	17.80	17	19,246	12	1,267	13

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.