

TRIAL SUMMARY

Crop Type: Corn Silage

Year: 2021

Location: Slingerland Feeders Ltd, Coaldale, AB

CANTERRA SEEDS Contact: Darren Nykolation

Planting Date: May 4, 2021

Harvest Date: Sept 17, 2021

Trial Type: Field Scale

Row Width: 22 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
Pioneer	P7527AM	2150	75	62.9	37.1	6.9	27	46.2	30.1	62	0.75	1.45	22.8	24.15	23	24,274	24	1747	22
PRIDE	AS1017RR EDF	2200	73	66.5	33.5	7.4	26.3	44.3	29.5	63	0.8	1.50	29.9	28.58	3	31,615	1	2100	1
PRIDE	A4646G2 RIB	2300	79	68.8	31.2	7.3	24.9	43.7	29.2	62	0.75	1.46	29.9	26.62	11	28,493	13	1926	11
PRIDE	AS1027RR EDF	2425	80	67.1	32.9	6.7	27.7	46.3	26.4	60	0.68	1.39	31.0	29.13	2	29,201	9	2039	2
DEKALB	DKC24-06 RIB	2100	74	67.5	32.5	7.3	25.6	43.8	27.8	61	0.74	1.45	28.9	26.88	10	28,034	14	1913	12
DEKALB	DKC31-85 RIB	2425	81	71.3	28.7	7.8	21.4	38.2	31.7	62	0.78	1.52	33.7	27.62	7	30,404	3	1998	6
Pioneer	P7574AM	2150	75	70.1	29.9	7.3	26.6	45.6	27.2	61	0.73	1.44	30.3	25.94	13	26,688	19	1846	18
Pioneer	P7527AM	2150	75	65.1	34.9	7.4	28.4	48	26.8	61	0.7	1.40	24.4	24.37	21	24,934	22	1734	23
Pioneer	P7958AM	2300	79	71.8	28.2	7.9	26.2	44	27.8	62	0.75	1.46	32.9	26.44	12	27,755	16	1913	13
Pioneer	P8294AM	2450	83	73.3	26.8	7.7	25.7	44.8	28.7	62	0.74	1.45	36.0	27.49	8	29,764	6	1988	8
Proven	PV 61181 RIB	2400	81	70.6	29.4	7.7	27	45.3	28.2	62	0.75	1.45	30.5	25.60	14	27,842	15	1852	16
Proven	PV 61177 SRR	2200	77	72.7	27.3	7.4	26	43.7	24.9	61	0.75	1.45	36.1	28.17	5	30,650	2	2005	4
Proven	PV 61180 RIB	2300	80	71.4	28.6	6.9	25.3	42.8	28.5	60	0.71	1.44	34.7	28.41	4	29,428	8	1988	7
PickSeed	PS2444RIB	2350	79	72.7	27.3	7.7	22.1	40.1	34	64	0.82	1.54	32.5	25.30	18	29,013	10	1889	14
PickSeed	PS2320RR	2200	76	68.7	31.3	8.3	27.1	47.5	23.6	62	0.77	1.44	30.3	27.09	9	30,316	4	1960	10
Maizex	E52V97 R	2450	82	72.0	28.1	8.2	22.8	40	31.1	64	0.83	1.55	31.3	25.07	19	28,659	12	1872	15

Pioneer	P7527AM	2150	75	64.8	35.2	7.4	24.7	42	31	62	0.77	1.49	22.9	23.05	24	24,328	23	1668	24
Maizex	MZ1200DBR	2050	72	65.0	35.0	7.5	21.8	39.6	34.8	66	0.91	1.62	25.5	25.45	16	29,639	7	1960	9
Maizex	MZ8171R	2400	80	71.1	28.9	7.3	29.5	50.5	20.4	59	0.67	1.34	35.5	29.30	1	28,934	11	2017	3
Maizex	MS8022R	2550	86	71.2	28.8	7.8	27.6	46.1	23.7	61	0.72	1.41	34.1	28.10	6	29,962	5	1999	5
Thunder	TH4072RR	2050	72	74.2	25.8	7.9	24.7	43.1	26.8	61	0.72	1.44	34.5	25.43	17	27,186	17	1810	19
Thunder	TH4076HRRR	2150	76	67.3	32.7	6.4	26.9	48.2	27.8	62	0.76	1.44	27.3	25.52	15	26,636	20	1846	17
Thunder	TH6875VT2P	2150	75	71.5	28.5	7.9	25.6	43.3	29.5	62	0.78	1.49	30.3	24.68	20	26,705	18	1786	20
Pioneer	P7527AM	2150	75	63.0	37.0	7.5	24.8	42.4	31	63	0.79	1.51	22.9	24.21	22	25,664	21	1779	21

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.