

## TRIAL SUMMARY

**Crop Type:** Corn Silage

**Year:** 2021

**Location:** Art Pruiam, Osler, SK

**CANTERRA SEEDS Contact:** Joanna Forsberg

**Planting Date:** May 5, 2021

**Harvest Date:** Oct 4, 2021

**Trial Type:** Field Scale - Irrigated

**Row Width:** 30 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	A4414RR	2125	73	70.8	29.2	9.5	27.6	50.5	16.5	58	0.62	1.3	11.7	9.76	6	9,990	6	661	6
PRIDE Seeds	A4705HMRR	2300	75	69.8	30.2	7.9	28.9	49.5	20.8	59	0.65	1.34	11.9	10.27	4	10,458	3	707	3
PRIDE Seeds	AS1017RR EDF	2150	73	71.5	28.5	7.6	28.5	49.6	15.9	56	0.56	1.26	12.8	10.42	3	10,028	5	681	5
Proven	PV61177SR	2200	77	74	26	7.7	26.4	49.1	17.2	58	0.61	1.3	12.4	9.21	7	9,005	8	623	8
Proven	PV61180RIB	2300	80	73.4	26.6	8.8	25.3	47.3	19	59	0.65	1.35	13.3	10.11	5	10,136	4	696	4
Proven	PV61276RIB	2175	76	67.5	32.5	7.3	24	45	24.7	60	0.68	1.4	11.5	10.68	2	11,112	2	748	2
Pioneer	P7417AM	2125	74	74.4	25.6	10.3	23.4	42.8	25	62	0.77	1.48	10.7	7.83	9	8,483	9	566	9
Pioneer	P7211AM	2050	72	68.6	31.4	8.1	28.1	48.5	23	61	0.72	1.4	12.5	11.21	1	11,806	1	798	1
Pioneer	P7202YHR	2050	72	69.6	30.4	8.7	24.5	43.7	28.2	64	0.81	1.51	9.7	8.43	8	9,507	7	629	7

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.