

TRIAL SUMMARY

Crop Type: Corn Silage

Year: 2021

Location: TFS Expanse, Taber, AB

CANTERRA SEEDS Contact: Darren Nykoliation

Planting Date: May 13, 2021

Harvest Date: Sept 30, 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	P8294AM	2450	83	63.7	36.3	7.3	26.3	44.1	29.8	62	0.74	1.46	22.0	22.81	5	23,639	10	1650	6
Pioneer	P8407AM	2450	84	62.0	38.0	7.6	22.3	41.7	33.8	63	0.81	1.53	20.2	21.92	9	24,586	7	1611	11
Pioneer	P8537AM	2550	85	55.3	44.7	8	19.5	35.8	39.5	66	0.9	1.64	17.8	22.75	6	26,013	2	1752	4
Pioneer	P8581R	2575	85	63.8	36.2	7.5	24.6	43	32.2	64	0.81	1.52	20.9	21.59	11	22,976	13	1612	10
Pioneer	P8859YHR	2600	88	58.4	41.6	7.3	22.7	41	34.1	64	0.83	1.55	18.3	21.74	10	24,619	6	1623	9
Pioneer	P8989AM	2625	89	63.4	36.6	7.4	24.4	43.8	31.4	64	0.8	1.51	20.6	21.51	12	23,010	12	1606	12
PRIDE Seeds	AS1027RR EDF	2425	80	54.2	45.8	7.2	24.2	40.8	33.7	65	0.85	1.56	18.3	23.94	3	26,706	1	1816	2
PRIDE Seeds	AS1047RR EDF	2450	81	68.0	32.0	8.3	28.4	49.7	24.6	62	0.75	1.41	25.8	23.59	4	25,297	5	1706	5
PRIDE Seeds	A4939G2 RIB	2400	81	59.4	40.6	7.4	23.1	41.2	34.3	64	0.83	1.55	18.9	21.93	8	24,157	8	1637	8
PRIDE Seeds	A5432G2 RIB	2500	83	63.8	36.2	6.8	24.4	43.3	32.7	63	0.79	1.50	21.7	22.41	7	23,981	9	1647	7
NK	NK8005 EZ1	2400	80	53.6	46.4	7.3	24.9	45.5	31.8	62	0.75	1.46	15.6	20.75	14	21,192	14	1501	14
NK	NK8618 EZ1	2650	86	61.2	38.8	7.3	25.1	44.8	32.1	63	0.78	1.49	21.8	24.13	2	25,489	4	1774	3
Thunder	TH4188RR	2675	88	65.1	34.9	8.7	25.4	44.4	28.3	63	0.8	1.5	20.9	20.91	13	23,172	11	1537	13
Northstar	255	2300	79	60.5	39.5	7.4	24.4	44.6	30.3	63	0.76	1.47	22.2	25.06	1	25,899	3	1842	1

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.



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PRIDE SEEDS

Field Yield Information (FYI)

DEMONSTRATION TRIAL RESULTS TO DATE