

TRIAL SUMMARY

Crop Type: Corn Silage

Year: 2021

Location: Ken Rabusic, Taber, AB

CANTERRA SEEDS Contact: Brennan Fazakas

Planting Date: May 10, 2021

Harvest Date: Sept 23, 2021

Trial Type: Field Scale - Irrigated

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
NK	NK8618-5122A	2650	86	66.3	33.7	7.5	25.9	46.9	28.9	64	0.79	1.48	22.6	21.78	13	23,232	12	1627	13
Pioneer	P8989AM	2625	89	63.1	36.9	7	22.3	40.9	32.8	64	0.81	1.53	22.4	23.63	7	25,574	8	1765	7
Pioneer	P8859YHR	2600	88	61.2	38.8	6.3	26.4	47.9	28.4	63	0.76	1.44	20.0	22.17	12	23,134	13	1629	12
Pioneer	P8537AM	2550	85	61.2	38.8	6.8	20	38.2	36.9	65	0.87	1.6	17.6	19.55	19	21,509	18	1482	18
Pioneer	P8581R	2575	85	52.6	47.4	7.1	18.1	35.2	40.7	67	0.92	1.67	17.4	23.50	9	26,702	4	1837	2
Pioneer	P8294AM	2450	83	60.0	40.0	7.1	22.7	40.5	34.6	65	0.85	1.57	22.0	25.14	1	27,937	1	1906	1
Pioneer	P8407AM	2450	84	63.5	36.5	7	20.2	35.9	39.5	64	0.85	1.6	22.3	23.25	10	26,744	2	1736	8
Dekalb	DKC33-37RIB	2500	83	62.1	37.9	6.5	20.5	38	36.4	64	0.85	1.58	21.9	23.74	6	26,106	6	1773	6
Dekalb	DKC34-57RIB	2575	84	65.1	34.9	6.9	24.1	41.5	32.2	63	0.79	1.51	22.7	22.70	11	23,708	11	1668	11
Dekalb	DKC35-37RIB	2575	85	65.9	34.1	6.6	26.7	46.4	28	61	0.72	1.42	22.1	21.55	15	21,768	17	1534	16
Dekalb	EXP86-21	EXP	EXP	64.1	35.9	7.1	29	50.2	24.9	61	0.69	1.37	21.0	21.57	14	21,770	16	1535	15
Dekalb	DKC37-73RIB	2650	87	66.4	33.6	6.9	24.3	42.4	31.5	63	0.77	1.49	22.2	21.35	16	22,967	15	1570	14
Dekalb	DKC38-55RIB	2650	88	64.7	35.3	6.8	22.7	41	33.8	64	0.81	1.53	24.1	24.29	3	26,711	3	1814	4
Pioneer	P8407AM	2450	84	59.5	40.5	6.6	21.5	39.3	36	64	0.84	1.57	20.6	23.79	5	25,183	9	1777	5
PRIDE Seeds	A5432G2 RIB	2575	83	62.9	37.1	6.7	23.8	42.5	32.3	64	0.81	1.52	23.1	24.53	2	26,064	7	1831	3

PRIDE Seeds	A4939G2 RIB	2400	81	65.2	34.8	7.6	22.3	40	35.1	62	0.77	1.51	18.9	18.76	20	19,756	20	1357	20
PRIDE Seeds	XP3229RR EDF	XP	XP	63.4	36.6	6.1	27.7	47.5	27.3	61	0.72	1.41	22.6	23.59	8	24,282	10	1679	10
PRIDE Seeds	AS1047RR EDF	2450	81	67.3	32.7	7.2	27.6	48.2	25	62	0.76	1.44	25.5	23.85	4	26,231	5	1725	9
PRIDE Seeds	AS1027RREDF	2425	80	62.7	37.3	5.4	31.4	52.2	24.1	59	0.64	1.32	19.9	21.23	17	20,388	19	1461	19
PRIDE Seeds	A4705HMRR	2225	76	69.0	31.0	7.9	26.8	47.7	26.1	64	0.82	1.48	23.0	20.42	18	23,002	14	1524	17

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.