

TRIAL SUMMARY

Crop Type: Corn Silage

Year: 2021

Location: Ryan Forough, Elgin, MB

CANTERRA SEEDS Contact: Katharyn Houston

Planting Date: May 4, 2021

Harvest Date: Sept 21, 2021

Trial Type: Field Scale

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
Horizon	HZ1710	2300	77	65.7	34.3	7.5	22.5	41.2	31.8	64	0.83	1.54	18.6	18.24	7	20,756	8	1362	8
NorthStar	NS271	2050	71	51.0	49.0	7.7	24.5	43.2	28.9	62	0.77	1.48	11.1	15.60	11	16,509	11	1128	11
PRIDE Seed	A4939G2 RIB	2400	81	58.6	41.4	7.5	17.1	32.1	40.7	67	0.93	1.68	17.1	20.20	3	23,635	2	1579	2
PRIDE Seed	AS1047RR EDF	2450	81	64.9	35.1	7.2	24.5	42.2	28.3	61	0.75	1.47	20.8	20.91	2	22,259	4	1488	3
PRIDE Seed	AS1027RR EDF	2425	80	60.1	39.9	7.0	18.7	33.1	39.7	66	0.91	1.66	19.5	22.23	1	26,207	1	1712	1
Pioneer	P7861AM	2250	78	61.4	38.6	8.4	17.9	31.9	40.2	66	0.93	1.68	11.8	13.02	14	15,478	13	1003	14
Horizon	HZ675	2350	78	66.3	33.7	7.5	20.6	36.2	35.8	64	0.83	1.57	18.6	17.94	8	20,094	9	1340	9
Horizon	HZ2220	2400	79	62.0	38.0	7.7	22.0	36.8	36.2	64	0.85	1.59	16.1	17.50	10	19,582	10	1307	10
Northstar	913S	2150	75	66.7	33.3	7.8	21.8	37.5	32.6	63	0.8	1.54	15.4	14.67	12	16,132	12	1079	12
Northstar	917S	2200	77	61.8	38.2	6.7	19.2	36.2	39.4	66	0.89	1.63	16.8	18.29	6	21,109	6	1408	6
Northstar	932S	2400	89	66.6	33.4	7.2	21.9	39	31.9	62	0.79	1.52	20.7	19.78	4	21,878	5	1431	5
Syngenta	NK8005	2400	80	59.7	40.3	7.5	19.3	34.9	38.3	66	0.9	1.64	16.8	19.29	5	22,470	3	1485	4
PRIDE Seed	A4646G2 RIB	2300	79	58.2	41.8	7.6	16.9	31.8	41.0	66	0.92	1.68	14.9	17.79	9	20,909	7	1369	7
Dekalb	DKC 31-85RIB	2425	81	64.2	35.8	8.1	25.1	45	25.2	61	0.72	1.42	13.9	14.23	13	14,847	14	1012	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.