

TRIAL SUMMARY

Crop Type: Corn Silage

Year: 2020

Location: John Schultz, Moosehorn, MB

CANTERRA SEEDS Contact: Jackie Dudgeon

Planting Date: May 17, 2020

Harvest Date: September 25, 2020

Trial Type: Field Scale

Row Width: 30 inches

PRIDE Seed Contact: Alana Serhan



COMPANY	VARIETY	CHU	RM	Moisture %	DM %	TONS/AC AT 65%	TONS/AC ACTUAL	Protein %	ADF %	NDF %	STARCH %	TDN %	NE/l	NE/g	MILK LB/AC	MILK RANK	BEEF LB/AC	BEEF RANK
Northstar	913S	2150	75	58.4	41.6	21.17	17.81	7.1	27.9	49.9	26.5	62	1.41	0.74	21990	3	1531	3
PRIDE	A4705HMRR	2300	76	61.9	38.1	18.43	16.93	8.4	28	47.8	21.6	61	1.39	0.71	17951	11	1312	10
PRIDE	AS1027RR EDF	2375	80	59	41	19.42	16.58	7.9	26.1	46.1	24.9	61	1.41	0.71	19775	8	1382	8
PRIDE	AS1037RR EDF	2375	80	60.2	39.8	21.32	18.75	7.7	24.6	44.2	28.1	63	1.48	0.78	22425	2	1567	2
Thunder	TH4076 HDRR	2150	76	64	36	16.69	16.23	8	24.3	44.3	31.5	63	1.5	0.79	17961	10	1227	12
Thunder	TH4126	2250	79	56.9	43.1	20.69	16.8	8.9	23.2	42.6	31.1	66	1.57	0.88	23373	1	1593	1
Thunder	TH7681 VT2P	2350	79	61.4	38.6	18.16	16.47	8.7	24.2	45.6	28.8	63	1.47	0.77	19492	9	1335	9
Thunder	TH6081	2350	82	58.8	41.5	19.56	16.5	8.1	24.2	44.8	28.7	63	1.47	0.77	21036	5	1438	6
Maizex	MS 7420R	2300	77	60.1	39.9	18.03	15.82	8.5	30.5	53.4	17.6	60	1.3	0.65	16891	12	1262	11
Maizex	MS 7733DBR	2500	84	59.7	40.3	20.15	17.5	8.5	28.8	50.4	21.3	62	1.4	0.75	20093	6	1458	5
Maizex	MS 8171R	2400	80	59.8	40.2	21.65	18.85	7.1	29.5	52.9	19.3	60	1.32	0.67	21286	4	1516	4
Dekalb	DKC 29-89RIB	2275	79	60.1	39.9	19.30	16.93	8.7	28	48.5	24.4	62	1.41	0.73	19961	7	1396	7
Dekalb	DKC 31-85RIB	2425	81	61.6	38.4	7.09	6.46	8.9	26	46.4	25.8	61	1.42	0.73	7561	13	504	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.