

# TRIAL SUMMARY

**Crop Type:** Corn Silage

**Year:** 2021

**Location:** Dusty Ridge Equine, Osterwick, MB

**CANTERRA SEEDS Contact:** Jackie Dudgeon

**Planting Date:** May 12, 2021

**Harvest Date:** Sept 14, 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
PRIDE	AS404G2 RIB	2625	85	67.9	32.1	9.3	19	36.3	39.6	65	0.86	1.61	19.8	18.2	3	20,391	3	1380	2
PRIDE	AS1047RR EDF	2450	81	63.9	36.1	11.1	21.2	38.9	32.5	66	0.91	1.62	20.9	21.6	1	25,404	1	1664	1
PRIDE	AS1097G8 EDF RIB	2850	94	77	23	10.8	26.9	48.9	17.8	60	0.67	1.34	23.8	15.7	6	16,367	9	1096	9
Horizon	HZ 3247	2750	92	76.1	23.9	12.3	21.7	39.5	27	65	0.84	1.55	20.9	14.3	12	15,992	10	1085	11
Thunder	TH6180 VT2P	2300	80	70.1	29.9	11.8	21.6	37.3	32.5	65	0.87	1.59	18.0	15.4	7	17,595	7	1164	6
Thunder	TH6183 VT2P	2450	83	68.9	31.1	12	17.9	32.2	37.9	66	0.92	1.67	17.0	15.1	9	18,033	6	1162	7
Thunder	TH6185 VT2P	2550	85	66.4	33.6	10.3	17.1	31.9	39.6	68	0.97	1.71	17.5	16.8	4	20,626	2	1335	3
Horizon	HZ 3020	2700	90	69.5	30.5	10.5	21.9	41	30.2	65	0.84	1.55	18.6	16.2	5	18,670	5	1231	5
Horizon	HZ 2220	2400	79	68.9	31.1	10	21.1	39.5	31.9	63	0.79	1.52	17.2	15.3	8	17,320	8	1123	8
Maizex	MZ 2699DBR	2600	86	74.2	25.8	11.4	25.1	42.8	25.4	61	0.73	1.44	17.1	12.6	14	14,051	12	896	15
Maizex	LFG 8755R	2750	91	76.9	23.1	12.6	26.5	46.3	15.1	58	0.62	1.32	20.8	13.8	13	13,378	14	931	13
Northstar	266	2475	84	72.8	27.2	11.3	23.2	42.3	25.4	64	0.81	1.5	15.9	12.3	15	13,635	13	921	14
Northstar	932S	2400	89	72.8	27.2	11	24.5	43.6	23.1	61	0.72	1.43	23.5	18.3	2	19,950	4	1299	4
Northstar	961S	2500	95	78.1	21.9	12.6	27.1	46.4	16.4	60	0.68	1.37	23.4	14.6	11	14,876	11	1024	12
Horizon	HZ878	2750	92	76.6	23.4	13.5	22.2	38.8	23.3	62	0.78	1.5	22.5	15.0	10	16,378	9	1088	10

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.