

TRIAL SUMMARY

Crop Type: WATCH - Corn Silage

Year: 2020

Location: Bruce Rosling, NuEra Seed, Gladstone MB

CANTERRA SEEDS Contact: Jackie Dudgeon

Planting Date: May 26, 2020

Harvest Date: September 22, 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
PRIDE	AS1047RR EDF	2400	81	63.4	36.6	21.11	20.19	7.6	26.4	48.3	22.3	60	1.38	0.69	22095	4	1478	3
PRIDE	AS1037RR EDF	2375	81	62.3	37.7	19.85	18.43	7.2	27.3	47.0	24.6	59	1.37	0.66	19205	8	1366	6
Maizex	MS8022R	2550	86	63.8	36.2	19.34	18.70	7.3	31.6	59.1	11.5	56	1.14	0.51	18758	9	1264	12
Pioneer	P8407	2450	84	60.3	39.7	20.39	17.98	7.6	26.3	49.1	24.1	62	1.40	0.73	22249	2	1475	4
PRIDE	A4705HMRR	2300	76	59.9	40.1	19.25	16.80	7.6	28.6	52.0	20.5	60	1.33	0.67	20183	6	1347	8
PRIDE	A4414RR	2125	74	57.1	42.9	17.33	14.14	7.9	26.7	47.2	27.2	63	1.45	0.77	18162	11	1274	11
PRIDE	XP20076G2	2275	76	58.7	41.3	19.34	16.39	7.8	26.0	49.0	28.0	62	1.42	0.73	20740	5	1399	5
PRIDE	AS1027RR EDF	2350	80	48.1	51.9	27.17	18.32	10.2	29.3	49.2	16.3	57	1.29	0.60	27336	1	1807	1
Thunder	TH4076HRR	2150	76	65.0	35.0	16.42	16.42	8.5	29.3	53.2	16.9	58	1.27	0.61	15902	15	1111	16
Thunder	TH4126 RR	2250	79	57.6	42.4	18.63	15.38	8.3	32.7	56.6	15.2	59	1.26	0.64	18709	10	1282	10
Thunder	TH6081 3220	2350	82	60.4	39.6	15.76	13.93	7.7	25.5	44.4	28.1	61	1.44	0.73	16648	14	1122	15
Pioneer	P7958	2300	79	59.6	40.4	19.44	16.84	7.5	29.9	51.3	22.9	61	1.36	0.69	19526	7	1383	7
Maizex	MS7420	2300	77	53.4	46.6	20.66	15.52	7.2	24.2	45.8	31.9	64	1.51	0.82	22124	3	1543	2

PRIDE	A4705HMRR	2300	76	63.6	36.4	17.76	17.08	7.6	27.8	50.2	22.5	62	1.40	0.74	17787	12	1285	9
Horizon	HZ675	2350	78	66.3	33.7	16.21	16.84	8.2	27.3	47.3	23.8	60	1.38	0.69	16673	13	1135	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.