

TRIAL SUMMARY

Crop Type: Corn Silage
Year: 2020
Location: Daryl Harder, Reinland, MB
CANTERRA SEEDS Contact: Jackie Dudgeon

Planting Date: May 19, 2020
Harvest Date: September 15, 2020
Trial Type: 1/1000th
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	2425	81	70.8	29.2	25.65	30.75	9.8	26.4	47.5	25.9	64	1.49	0.83	28284	5	1916	5
PRIDE	AS1047RR EDF	2425	81	70.9	29.1	20.79	25.00	8.9	25.0	44.7	28.5	63	1.49	0.79	22007	12	1528	12
PRIDE	AS1047RR EDF	2425	81	69.3	30.7	23.55	26.85	9.3	26.0	47.2	27.4	63	1.46	0.78	25157	7	1731	7
PRIDE	AS1047RR EDF	2425	81	69.8	30.2	21.01	24.35	8.5	28.6	48.9	25.1	62	1.42	0.75	21267	13	1520	13
PRIDE	AS1047RR EDF	2425	81	67.0	33.0	27.44	29.10	8.4	25.1	43.4	29.5	64	1.53	0.83	30490	2	2049	2
Maizex	MZ8022R	2550	86	66.4	33.6	27.26	28.40	8.5	27.9	47.9	24.7	63	1.44	0.76	29915	3	2004	3
Thunder	TH4126	2250	79	65.6	34.4	23.39	23.80	8.6	33.5	54.7	17.2	60	1.30	0.67	22277	9	1637	11
PRIDE	A5404G2	2625	85	68.6	31.4	21.62	24.10	8.2	34.6	58.8	16.0	58	1.21	0.60	19032	14	1463	14
PRIDE	A5383G8	2600	84	67.3	32.7	23.78	25.45	8.8	22.6	40.6	33.6	65	1.58	0.87	26390	6	1803	6
PRIDE	AS1027RR EDF	2400	80	66.7	33.3	27.69	29.10	8.2	28.1	50.1	22.9	62	1.41	0.75	29362	4	2003	4
Horizon	CGS	2450	82	57.7	42.3	33.78	27.95	7.9	24.2	43.7	34.2	63	1.51	0.80	35197	1	2483	1
Horizon	CGS	2375	79	65.8	34.2	21.50	22.00	9.4	29.0	48.8	21.9	62	1.42	0.75	22384	11	1555	10
Horizon	CGS	2250	85	64.2	35.8	21.17	20.70	8.9	24.8	44.3	30.2	65	1.53	0.83	22580	10	1606	9
Pioneer	P8352	2425	83	63.9	36.1	22.28	21.60	9.4	23.0	41.7	33.7	64	1.55	0.84	24539	7	1663	7

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.