

TRIAL SUMMARY

Crop Type: Corn Silage

Year: 2020

Location: Stepler Farm, Miami, MB

CANTERRA SEEDS Contact: Jackie Dudgeon

Planting Date: , 2020

Harvest Date: September 23, 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	64.1	35.9	22.41	21.85	7.8	29.9	54.0	17.1	61	1.32	0.69	23595	5	1595	7
Croplan	CP2851	2675	88	59.9	40.1	21.48	18.75	7.2	26.0	45.9	27.4	61	1.42	0.71	22729	8	1529	10
Maizex	E65G82	2700	91	61.0	39.0	24.51	22.00	7.1	34.7	58.8	14.8	57	1.18	0.56	21278	12	1630	5
Horizon	HZ2534	2550	85	63.0	37.0	22.99	21.75	8.3	25.6	45.8	26.7	61	1.42	0.72	24907	3	1636	4
Legend	N/A	X	X	63.2	36.8	21.13	20.10	7.9	27.0	46.9	25.5	60	1.39	0.69	21281	11	1479	15
Proven	PV62384	2500	84	64.9	35.1	20.41	20.35	7.1	31.7	53.3	19.6	60	1.30	0.65	19521	16	1429	16
Thunder	TH7681	2350	79	56.8	43.2	21.60	17.50	7.7	31.7	53.9	20.2	60	1.30	0.65	20699	13	1512	12
Croplan	CP2790	2650	87	61.9	38.1	23.79	21.85	7.8	19.0	36.4	38.8	65	1.61	0.87	27289	1	1804	1
GFG	Prime	2750	90	68.2	31.8	22.90	25.20	6.7	26.1	48.5	24.4	60	1.37	0.67	22911	6	1603	6
PRIDE	AS1047RR EDF	2425	81	67.8	32.2	20.75	22.55	6.8	24.8	45.3	29.2	62	1.45	0.75	21740	10	1501	14
Maizex	MZ8171	2400	80	65.3	34.7	22.90	23.10	7.0	27.0	48.5	26.0	62	1.41	0.73	23775	4	1657	2
PRIDE	AS1027RR EDF	2375	80	59.6	40.4	22.51	19.50	7.2	24.7	45.7	30.0	63	1.47	0.77	24918	2	1654	3

Horizon	HZ2220	2375	79	64.4	35.6	23.70	23.30	7.1	37.5	64.0	11.2	57	1.09	0.52	20430	14	1576	8
Proven	PV62485	2550	85	59.1	40.9	22.55	19.30	7.3	35.8	61.3	14.1	58	1.16	0.57	19561	15	1526	11
Thunder	TH6081	2350	82	58.0	42.0	21.78	18.15	7.7	27.7	48.8	25.2	61	1.39	0.70	22244	9	1550	9
Horizon	HZ675	2350	78	63.0	37.0	20.88	19.75	8.7	24.8	46.0	28.0	62	1.45	0.75	22748	7	1510	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.