

TRIAL SUMMARY

Crop Type: Corn Silage

Year: 2020

Location: Jonathon Vaags, Springfield, MB

CANTERRA SEEDS Contact: Jackie Dudgeon

Planting Date: May 18, 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
Thunder	TH4126RR	2250	79	59.0	41.0	13.29	11.34	8.2	28.7	53.1	19.5	62	1.37	0.74	14746	8	961	8
PRIDE	AS1047RR EDF	2400	81	58.5	41.5	19.41	16.37	8.1	24.8	46.5	26.7	63	1.46	0.77	21862	1	1427	1
Croplan	CP2315	2500	83	60.3	39.7	13.12	11.57	8.7	23.7	44.5	28.7	63	1.47	0.77	14868	7	964	7
PRIDE	AS1037RR EDF	2375	80	59.0	41.0	15.58	13.30	7.2	26.3	47.1	26.9	61	1.41	0.71	16599	3	1109	4
Thunder	TH7578	2225	78	63.2	36.8	9.90	9.42	9.9	28.6	52.0	14.2	56	1.24	0.56	9756	14	647	14
Croplan	CP2587	2625	85	55.6	44.4	14.42	11.37	7.7	21.8	42.4	32.6	63	1.51	0.79	16600	4	1060	3
Thunder	TH6081	2350	82	53.7	46.3	13.74	10.39	8.5	21.6	42.4	31.8	63	1.51	0.79	15802	6	1010	6
Thunder	TH7681	2350	79	59.9	40.1	11.62	10.14	8.8	28.1	52.4	16.1	57	1.26	0.58	11701	13	772	13
PRIDE	A4939G2	2400	81	54.9	45.1	12.99	10.08	8.6	24.6	44.9	29.0	62	1.44	0.73	14644	11	940	10
Croplan	CP2180	2375	81	51.1	48.9	13.24	9.48	8.3	24.4	45.4	27.0	61	1.43	0.72	14572	10	942	11
Pioneer	P7861	2200	78	52.3	47.7	14.21	10.43	8.7	20.9	40.1	33.3	63	1.52	0.79	16019	5	1045	5
Croplan	CP2123	2300	79	54.1	45.9	12.58	9.59	7.2	23.0	45.6	31.7	63	1.47	0.77	14167	12	925	12
Pioneer	P7681	2200	78	49.3	50.7	15.19	10.49	7.4	23.5	43.4	33.6	63	1.50	0.78	17026	2	1117	2
PRIDE	A4646G2	2300	78	49.7	50.3	13.03	9.07	9.7	21.2	38.9	31.1	63	1.53	0.80	14684	9	958	9

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.