

TRIAL SUMMARY

Crop Type: Corn Silage

Year: 2020

Location: Dobson Farms, Moosomin, SK

CANTERRA SEEDS Contact: Katharyn Houston

Planting Date: May 20, 2020

Harvest Date: September 17, 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
Maizex	Venza	2600	88	67.9	32.1	13.78	15.02	6.5	31.6	51.4	8.6	49	1.08	0.32	10284	9	787	5
Maizex	MZ8022	2400	79	69.2	30.8	13.05	14.83	6.1	31.2	51.8	11.3	51	1.12	0.39	10282	10	776	6
NSG	932S	2350	89	74.2	25.8	8.38	11.37	8.4	33.4	53.6	7.6	50	1.08	0.36	6946	16	489	16
NSG	913	2150	75	67.6	32.3	10.92	11.83	8.0	27.2	48.9	16.5	56	1.26	0.55	10275	11	713	11
Dekalb	29-89 RIB	2275	79	67.0	33.0	7.36	7.81	7.1	26.8	48.2	19.4	57	1.30	0.59	7059	15	490	15
Dekalb	32-12 RIB	2450	82	68.6	31.4	13.98	15.58	7.6	25.6	46.2	23.1	59	1.38	0.67	14334	1	962	1
PRIDE	A4414RR	2125	73	70.7	29.3	10.26	12.25	7.2	27.9	51.3	17.6	57	1.27	0.58	9616	12	682	12
PRIDE	A4705HMRR	2300	75	63.9	36.1	11.30	10.96	8.7	27.3	50.6	15.6	56	1.26	0.56	10738	5	739	8
PRIDE	AS1017RR EDF	2200	73	65.8	34.2	11.94	12.22	7.2	28.6	49.8	16.1	54	1.22	0.51	10690	7	752	7
Thunder	TH 4126	2250	79	66.1	33.9	13.21	13.64	8.1	29.0	50.8	17.0	57	1.27	0.59	12462	3	879	2
Thunder	TH 7578	2225	78	68.7	31.3	9.37	10.48	8.5	25.0	45.9	22.0	60	1.38	0.68	9562	13	656	13
Thunder	TH 6081	2350	82	66.6	33.4	10.92	11.44	8.2	24.5	44.2	21.5	57	1.34	0.61	10691	6	726	10
Pickseed	PS2420	2300	78	66.8	33.2	12.20	12.86	8.7	25.5	46.4	21.6	60	1.40	0.71	12894	2	854	3

Croplan	2180	2375	81	70.3	29.7	5.94	7.00	8.4	27.0	47.7	17.9	56	1.29	0.58	5672	17	388	17
Croplan	2123	2300	79	67.5	32.5	11.58	12.47	8.1	23.3	44.5	24.2	59	1.39	0.68	10902	4	797	4
Croplan	2288	2450	82	71.8	28.2	11.13	13.82	9.1	25.6	47.3	15.9	56	1.29	0.58	10491	8	727	9
Pioneer	P7940	2275	79	68.6	31.4	9.63	10.73	7.7	28.3	50.2	16.4	56	1.26	0.56	8834	14	629	14

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.