

## TRIAL SUMMARY

**Crop Type:** Corn Silage

**Year:** 2020

**Location:** RRD Ranch – Eric Davidson, Maidstone, SK

**CANTERRA SEEDS Contact:** Joanna Forsberg

**Planting Date:** May 22, 2020

**Harvest Date:** September 23, 2020

**Trial Type:** Field Scale

**Row Width:** 30 inches

**PRIDE Seed Contact:** Sara Meidlinger



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	LF728R	2300	74	71.8	28.2	13.78	17.10	8.2	30.3	53.7	17.2	59	1.27	0.61	12391	4	949	3
Dekalb	DKC 24-06RIB	2100	74	72.6	27.4	13.19	16.85	8.8	31.5	53.9	13.1	55	1.18	0.49	10598	10	847	7
Maizex	MZ1200DBR	2050	72	70.5	29.5	15.05	17.85	8.2	25.7	45.4	26.2	61	1.42	0.72	15179	2	1071	2
Dekalb	DKC 23-17RIB	2075	73	69.6	30.4	13.51	15.55	9.1	32.5	57.2	17.1	60	1.25	0.63	12090	6	946	4
Dekalb	DKC 21-36RIB	2025	71	69.7	30.3	12.99	15.00	8.7	27.9	49.8	25.2	62	1.40	0.73	12638	3	940	5
Maizex	MS80022R	2400	79	70.1	29.9	17.05	19.95	8.5	31.9	54.9	13.0	55	1.18	0.51	15358	1	1094	1
Maizex	E44H12R	1950	71	71.5	28.5	11.32	13.90	10.1	29.4	54.6	15.4	59	1.26	0.61	11170	8	779	9
Maizex	MS 7420R	2300	77	71.4	28.6	12.10	14.80	9.0	28.2	51.6	18.3	60	1.32	0.66	12312	5	847	6
<b>PRIDE</b>	<b>XP20071RR</b>	<b>2000</b>	<b>72</b>	<b>66.3</b>	<b>33.7</b>	<b>10.21</b>	<b>10.60</b>	<b>8.9</b>	<b>28.7</b>	<b>53.0</b>	<b>21.0</b>	<b>61</b>	<b>1.34</b>	<b>0.69</b>	<b>9947</b>	<b>12</b>	<b>727</b>	<b>11</b>
<b>PRIDE</b>	<b>A3993G2 RIB</b>	<b>2025</b>	<b>72</b>	<b>73.0</b>	<b>27.0</b>	<b>8.60</b>	<b>11.15</b>	<b>9.6</b>	<b>26.8</b>	<b>50.8</b>	<b>16.6</b>	<b>59</b>	<b>1.31</b>	<b>0.64</b>	<b>8606</b>	<b>15</b>	<b>592</b>	<b>15</b>
<b>PRIDE</b>	<b>AS1017RR EDF</b>	<b>2200</b>	<b>73</b>	<b>74.1</b>	<b>25.9</b>	<b>10.03</b>	<b>13.55</b>	<b>9.0</b>	<b>28.2</b>	<b>53.4</b>	<b>11.5</b>	<b>56</b>	<b>1.22</b>	<b>0.55</b>	<b>9337</b>	<b>13</b>	<b>655</b>	<b>13</b>
Pioneer	P7202AM	2050	72	68.4	31.6	10.97	12.15	8.8	30.2	53.3	19.5	60	1.32	0.67	10703	9	768	10
Pioneer	P7211AM	2050	72	66.1	33.9	8.96	9.25	8.9	28.4	50.6	17.6	59	1.31	0.64	9046	14	617	14
Pioneer	P7005AM	2000	70	56.8	43.2	11.17	9.05	9.9	26.5	47.3	23.6	61	1.4	0.71	11235	7	795	8
Pioneer	P7213R	2050	72	68.7	31.3	9.75	10.90	8.5	29.1	53.3	17.6	60	1.32	0.67	10091	11	682	12
Pioneer	P6909R	1950	70	66.5	33.5	7.37	7.70	7.7	31.4	55.9	16.1	58	1.23	0.58	6615	16	499	16

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.