

## TRIAL SUMMARY



**Crop Type:** Corn Silage  
**Year:** 2020  
**Location:** Elk Creek Dairy, Coaldale, AB  
**Management Type:** Irrigated  
**CANTERRA SEEDS Contact:** Page Newton

**Planting Date:** May 9, 2020  
**Harvest Date:** September 25, 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 %	Lignin %	NE/l	NE/g	MILK LB/AC	MILK RANK	BEEF LB/AC	BEEF RANK
Pioneer	P7527AM	2150	75	62.62	37.38	21.54	20.17	6.9	26.0	46.0	27.7	63	3.3	1.46	0.77	22204	9	1583	10
Proven	PV 60075RIB	2125	75	61.47	38.53	21.80	19.80	7.7	26.6	47.8	23.3	62	3.4	1.42	0.74	22200	10	1577	11
Pioneer	P7861AM	2250	78	64.72	35.28	24.62	24.42	7.9	25.0	42.4	27.1	61	3.5	1.45	0.73	24838	6	1752	4
GFG	Rustler GT	2050	71	63.78	36.22	22.72	21.95	X	X	X	X	X	X	X	X	0	X	X	X
Maizex	MS 7420R	2300	77	63.86	36.14	22.90	22.18	X	X	X	X	X	X	X	X	0	X	X	X
Dekalb	DKC29-89RIB	2275	79	68.65	31.35	21.38	23.87	7.6	25.3	44.2	25.4	61	3.0	1.44	0.74	21821	13	1522	13
<b>PRIDE Seeds</b>	<b>A4705HMRR</b>	<b>2325</b>	<b>75</b>	<b>68.04</b>	<b>31.96</b>	<b>23.68</b>	<b>25.93</b>	<b>6.5</b>	<b>26.6</b>	<b>47.5</b>	<b>23.7</b>	<b>61</b>	<b>3.4</b>	<b>1.41</b>	<b>0.72</b>	<b>23387</b>	<b>7</b>	<b>1685</b>	<b>7</b>
<b>PRIDE Seeds</b>	<b>AS1037RR EDF</b>	<b>2400</b>	<b>80</b>	<b>68.52</b>	<b>31.48</b>	<b>25.46</b>	<b>28.31</b>	<b>6.4</b>	<b>26.7</b>	<b>48.6</b>	<b>21.6</b>	<b>59</b>	<b>3.7</b>	<b>1.34</b>	<b>0.65</b>	<b>24909</b>	<b>5</b>	<b>1753</b>	<b>3</b>
Pick Seed	PS2320RR	2200	76	65.36	34.64	23.31	23.55	7.6	23.5	43.1	29.0	65	3.0	1.55	0.86	25640	3	1768	2
Maizex	MS 7733DBR	2500	84	66.06	33.94	23.90	24.65	X	X	X	X	X	X	X	X	0	X	X	X
GFG	Vernon	2275	80	66.41	33.59	26.20	27.30	X	X	X	X	X	X	X	X	0	X	X	X

<b>PRIDE Seeds</b>	<b>A4646G2 RIB</b>	<b>2300</b>	<b>78</b>	<b>64.26</b>	<b>35.74</b>	<b>23.68</b>	<b>23.19</b>	<b>7.7</b>	<b>22.8</b>	<b>42.7</b>	<b>29.8</b>	<b>63</b>	<b>3.5</b>	<b>1.50</b>	<b>0.79</b>	<b>26273</b>	<b>1</b>	<b>1741</b>	<b>5</b>
GFG	Riel GT	2150	76	70.04	29.96	21.49	25.11	X	X	X	X	X	X	X	X	0	X	X	X
Proven	PS 62282R	2400	79	67.98	32.02	21.63	23.64	7.3	25.5	46.4	25.5	62	3.2	1.44	0.75	21974	12	1564	12
Maizex	MS 8171R	2400	80	66.61	33.39	27.74	29.08	X	X	X	X	X	X	X	X	0	X	X	X
Maizex	MS 8022R	2550	86	69.20	30.8	24.95	28.35	X	X	X	X	X	X	X	X	0	X	X	X
<b>PRIDE Seeds</b>	<b>A4939G2 RIB</b>	<b>2400</b>	<b>81</b>	<b>69.26</b>	<b>30.74</b>	<b>21.57</b>	<b>24.56</b>	<b>7.3</b>	<b>26.6</b>	<b>45.6</b>	<b>24.9</b>	<b>60</b>	<b>3.5</b>	<b>1.40</b>	<b>0.70</b>	<b>21524</b>	<b>14</b>	<b>1510</b>	<b>14</b>
<b>PRIDE Seeds</b>	<b>AS1047RR EDF</b>	<b>2400</b>	<b>81</b>	<b>70.17</b>	<b>29.83</b>	<b>23.66</b>	<b>27.76</b>	<b>6.5</b>	<b>28.2</b>	<b>50.6</b>	<b>19.9</b>	<b>59</b>	<b>3.4</b>	<b>1.33</b>	<b>0.65</b>	<b>22822</b>	<b>8</b>	<b>1629</b>	<b>8</b>
Proven	PV 62384RIB	2500	84	67.01	32.99	23.97	25.43	6.7	24.5	42.3	27.8	61	3.5	1.45	0.73	25210	4	1706	6
Dekalb	DKC33-37RIB	2400	83	66.77	33.23	25.14	26.48	7.2	26.1	45.8	25.9	61	3.5	1.43	0.73	26257	2	1789	1
Dekalb	DKC34-57RIB	2575	84	69.27	30.73	22.72	25.88	7.3	27.3	46.4	23.5	60	3.3	1.39	0.69	21998	11	1591	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.