

# TRIAL SUMMARY

**Crop Type:** Corn Silage

**Year:** 2020

**Location:** Poly C Farms, Cor Haagsma, Ponoka, AB

**CANTERRA SEEDS Contact:** Duane Briand

**Planting Date:** May 6, 2020

**Harvest Date:** September 28, 2020

**Trial Type:** Field Scale

**Row Width:** 15 inches

**PRIDE Seed Contact:** Sara Meidlinger



COMPANY	VARIETY	CHU	RM	Moisture %	DM %	TONS/A C AT 65%	TONS/A C ACTUAL	Protein %	ADF %	NDF %	STARCH %	TDN %	NE/l	NE/g	MILK LB/T	MILK LB/AC	MILK LB/AC RANK	BEEF LB/AC	BEEF RANK
Pioneer	39F44	2000	73	70.7	29.3	18.57	22.18	8.3	25.4	61.1	24.0	69.2	0.71	0.50	2947	19152	15	1499	15
Proven	PV60172	2050	73	69.6	30.4	22.17	25.52	8.9	23.9	63.5	24.5	68.7	0.71	0.49	2993	23220	10	1777	12
Dekalb	DKC26-40	2150	76	70.9	29.1	22.37	26.90	8.6	25.5	63.6	21.4	68.4	0.71	0.49	2802	21934	12	1785	11
Proven	PV60075RR	2125	75	72.5	27.5	21.41	27.25	8.7	26.1	63.3	20.4	68.1	0.70	0.48	2798	20968	13	1701	13
Proven	PV61079	2275	79	71.8	28.2	23.34	28.97	8.5	26.5	63.4	20.7	68.0	0.70	0.48	2811	22965	11	1852	7
<b>PRIDE</b>	<b>A3993G2</b>	<b>2025</b>	<b>72</b>	<b>68.7</b>	<b>31.3</b>	<b>22.37</b>	<b>25.01</b>	<b>9.2</b>	<b>23.0</b>	<b>63.6</b>	<b>25.6</b>	<b>70.2</b>	<b>0.73</b>	<b>0.52</b>	<b>3133</b>	<b>24526</b>	<b>8</b>	<b>1832</b>	<b>10</b>
<b>PRIDE</b>	<b>AS1017RR EDF</b>	<b>2200</b>	<b>73</b>	<b>68.4</b>	<b>31.6</b>	<b>26.63</b>	<b>29.49</b>	<b>7.4</b>	<b>23.1</b>	<b>61.4</b>	<b>28.4</b>	<b>71.2</b>	<b>0.74</b>	<b>0.53</b>	<b>3081</b>	<b>28711</b>	<b>2</b>	<b>2212</b>	<b>1</b>
<b>PRIDE</b>	<b>XP20071RR</b>	<b>2000</b>	<b>71</b>	<b>65.9</b>	<b>34.1</b>	<b>23.61</b>	<b>24.23</b>	<b>7.2</b>	<b>22.7</b>	<b>61.9</b>	<b>28.7</b>	<b>70.3</b>	<b>0.73</b>	<b>0.52</b>	<b>3022</b>	<b>24969</b>	<b>5</b>	<b>1936</b>	<b>4</b>
Maizex	E44H12R	2100	72	70	30	23.36	27.25	9.4	22.4	67.0	24.9	70.4	0.73	0.52	3008	24558	7	1918	6
Maizex	MZ1340DBR	2150	73	69.9	30.1	23.13	26.90	9.0	20.5	71.9	28.0	72.8	0.75	0.55	3210	25991	3	1965	3
Maizex	MZ1200DBR	2050	72	68.7	31.3	22.82	25.52	9.4	21.6	67.9	27.0	72.2	0.75	0.55	3231	25808	4	1922	5
Pioneer	P7202	2050	72	70.3	29.7	22.10	26.04	8.1	23.0	64.0	28.6	71.5	0.74	0.54	3105	24014	9	1843	9
Pioneer	39F44	2000	73	71.2	28.8	19.44	23.63	8.3	25.9	69.6	20.9	68.1	0.70	0.48	2947	20056	14	1545	14
Pioneer	P6909	1950	73	67.9	32.1	22.30	24.32	8.1	22.7	59.2	30.4	71.0	0.73	0.53	3189	24896	6	1848	8
Pioneer	P7213	2050	72	66.6	33.4	26.33	27.59	8.5	23.0	61.1	29.4	70.7	0.73	0.52	3272	30152	1	2172	2

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.