TRIAL SUMMARY

Crop Type: Corn Silage
Year: 2021
Location: Elk Creek Dairy, Coaldale, AB
CANTERRA SEEDS Contact: Brennan Fazakas

Planting Date: May 8, 2021
Harvest Date: Sept 7, 2021
Trial Type: Field Scale - Irrigated
Row Width: 30 inches
PRIDE Seed Contact: Sara Meidlinger

COMPANY	VARIETY	CHU	RM	Moisture %	DM %	Protein %	ADF %	NDF %	STARCH %	TDN %	NE/g	NE/l	TONS/AC ACTUAL	TONS/AC AT 65%	DRY Yield RANK	MILK LB/AC	MILK RANK	BEEF LB/AC	BEEF RANK
Proven	PV EXP 21-C2	EXP	EXP	68.4	31.6	7.9	29.1	49.8	22.6	60	0.68	1.36	24.6	22.25	14	22,189	14	1558	12
Proven	PV EXP 21-C1	EXP	EXP	63.8	36.2	7.4	30.4	52.7	19.5	59	0.65	1.31	23.0	23.80	6	23,645	8	1639	6
DEKALB	DKC31-85 RIB	2425	81	69.8	30.2	8.7	26.8	45.4	23.5	60	0.71	1.41	26.3	22.67	12	23,697	7	1587	9
PRIDE	**A4705HMRR**	**2350**	**76**	**71.0**	**29.0**	**7**	**29.1**	**49.2**	**22.8**	**60**	**0.69**	**1.37**	**27.8**	**23.01**	**10**	**23,837**	**6**	**1611**	**8**
PRIDE	**AS1027RR EDF**	**2425**	**80**	**70.3**	**29.7**	**7.2**	**30.4**	**51.3**	**18.9**	**58**	**0.63**	**1.30**	**28.3**	**23.99**	**5**	**22,956**	**10**	**1623**	**7**
PRIDE	**AS1047RR EDF**	**2450**	**81**	**74.4**	**25.6**	**7.7**	**30.5**	**52.5**	**18.6**	**60**	**0.68**	**1.33**	**33.3**	**24.32**	**3**	**25,114**	**2**	**1703**	**3**
PRIDE	**A4646G2 RIB**	**2300**	**79**	**70.2**	**29.8**	**7.7**	**30.6**	**51.1**	**21.2**	**59**	**0.63**	**1.32**	**26.1**	**22.22**	**15**	**21,938**	**16**	**1529**	**14**
PRIDE	**XP3229RR EDF**	**XP**	**XP**	**72.7**	**27.3**	**7.1**	**28.9**	**49.4**	**20.0**	**57**	**0.6**	**1.30**	**30.4**	**23.75**	**7**	**23,165**	**9**	**1579**	**10**
PRIDE	**A5432G2 RIB**	**2650**	**86**	**72.7**	**27.3**	**7.4**	**32.4**	**52.5**	**17.7**	**57**	**0.58**	**1.26**	**28.5**	**22.26**	**13**	**21,101**	**21**	**1481**	**21**
Proven	PV 61177SRR	2200	77	73.1	26.9	6.7	30.9	52.3	18.0	57	0.6	1.27	29.8	22.91	11	21,644	19	1524	16
Proven	PV 61180 RIB	2300	80	73.3	26.7	7	31.1	51.1	21.1	58	0.63	1.31	28.8	21.98	17	21,365	20	1487	20
Pickseed	P2333RR	2275	77	67.2	32.8	7.2	29.7	49.3	22.7	60	0.7	1.38	19.1	17.92	26	17,992	26	1254	26
Pickseed	P2444 RIB	2350	79	68.7	31.3	7.1	26.4	45.6	26.7	60	0.7	1.41	23.8	21.33	22	22,536	12	1493	19
Pickseed	PSExSeed LF RR	2450	83	73.9	26.1	7.5	30.1	51.4	17.8	57	0.57	1.26	31.4	23.39	8	21,848	17	1555	13
Thunder	TH4072RR	2050	72	56.3	43.7	6.4	28	50.2	25.8	62	0.72	1.39	17.3	21.62	21	22,344	13	1564	11
Thunder	TH4076 HDRR	2150	76	65.8	34.2	5.7	32.7	54.2	20.6	57	0.56	1.24	22.2	21.71	20	19,595	24	1444	22

Field Yield Information (FYI)

DEMONSTRATION TRIAL RESULTS TO DATE

Thunder	TH6875 RIB	2150	75	69.7	30.3	7.4	29.4	50.2	23.7	61	0.71	1.38	22.0	19.04	25	18,910	25	1355	25
Thunder	TH6180 VT2P	2300	80	68.1	31.9	8.2	29.5	50	18.6	59	0.66	1.33	26.7	24.32	4	24,027	4	1674	4
Maizex	MZ1200DBR	2050	72	58.1	41.9	7	28.8	48.6	25.8	61	0.7	1.39	16.9	20.21	24	20,227	22	1438	23
Maizex	MS8022RR	2550	86	69.7	30.3	7.6	30	50.8	20.4	59	0.67	1.34	25.6	22.15	16	22,131	15	1525	15
Maizex	MS8171R	2400	80	63.5	36.5	7	30.7	52.5	20.4	60	0.69	1.34	25.2	26.23	1	26,260	1	1836	1
Maizex	MS7733DBR RIB	2350	77	64.2	35.6	7.6	26.2	44.4	25.8	61	0.73	1.44	23.0	23.37	9	24,001	5	1663	5
Maizex	E52V97R	2450	82	68.5	31.5	7.5	29	49.9	21.8	59	0.64	1.33	24.4	21.95	18	21,838	18	1511	18
Maizex	LF9006SMX RIB	2600	87	77.1	22.9	8.2	30.5	52.9	13.1	56	0.54	1.22	33.4	21.87	19	20,151	23	1429	24
Pioneer	P7958AM	2300	79	63.6	36.4	7.1	30.2	50.2	25.0	61	0.69	1.37	23.5	24.46	2	24,222	3	1741	2
Pioneer	P8352AM	2425	83	69	31	7.7	24.4	42.3	29.4	61	0.72	1.45	24.1	21.32	23	22,785	11	1517	17

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.