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Bull Evaluation Centre Report

201019 MILLER LAND & LIVESTOCK #2 (End of Test)

Test Date: **12 Mar 2010** Days on Test: **114**

Centre Manager:	**GEORGE & DWAYNE MILLER**
Phone #:	**519-587-2755**
EMail:	**diannepmiller@sympatico.ca**
Address:	**R.R.# 1,406 CONCESSION 6 , JARVIS , ON , N0A 1J0**
Ration Statement:	**TMR Roughage -Silage, HM corn, Purina Pellet**

Start of Test Date:	**18 Nov 2009**
End of Test Date:	**12 Mar 2010**
Pick Up Date:	

Note:
1. Check the information on your BULL(s) to ensure the pedigree, birth date, tattoo, and weaning data is complete and accurate.
2. For best results clients need to submit complete herd data with complete weaning weights on all their calves to our Herd Evaluation Service or bioTrack. If no data is submitted to BIO's Herd Evaluations Services, then the calves in the bull evaluation centre will be regarded as UNOFFICIAL. Unofficial calves will not receive genetic evaluations, BIO Economic Indexes nor certificates and may not eligible for awards that are offered from time to time.
3. Give the office a call for worksheets or instructions on using bioTrack (on-line entry) to submit your herd data.

A Guide to BIO's Bull and Heifer Evaluation Reports and BIO's Genetic Evaluations

Report Features

- Objectively Compare all animals using our across breed comparisons -ABCs - Allows you to compare all the bulls in the group for their genetics, regardless of their breed. Bulls are listed on the report by the tag number.
- Quickly know where an animal ranks for a trait using the percentile ranking. Our percentile rankings range from 1 (lowest) to 99 (highest) tells you how an animal ranks for the trait you're looking at. All animals are ranked for each trait! The rankings compare all animals evaluated over the past 3 years for that trait.
  Across breed Percentiles (%AB) allow you to compare purebred, crossbred, and composite animals across breeds.
  Within breed Percentiles (%WB) allow you to compare purebred animals within its breed.
  Example: A bull or heifer that has a percentile of 99 (99th percentile) is in the top 1% of all animals evaluated for that trait or index; a bull in the 80th percentile is in the top 20%, etc.
- Most current genetic evaluations - The Herd Recording traits (CE, BW, WG, MILK) are updated on the 84-day and End-of-test reports, to reflect the added information of weights taken on test. The End-of-test evaluations use the animal's on-test performance and all related performance data in the database to calculate the ABC and are therefore the most current evaluations in the industry.

Features of BIO's Genetic Evaluations (ABCs) and Economic Indexes

- Genetic Evaluations - the most accurate method to express genetic ability of an animal. They are adjusted for environment and can be used to compare animals across herds and evaluation centres.
- ABC - Across Breed EPD or Comparison - Estimate of how future progeny of an animal are expected to perform in each of the traits. Comparisons can be made within breeds and across breeds. For example, a bull or heifer with a Yearling Gain ABC of +85 will produce progeny that are on average 50 pounds heavier than progeny from a bull with a Yearling Gain ABC of +35.
- Accuracy - Measure of the amount of information used to calculate the ABC. Ranges from 1 (least) to 99 (most). Evaluations based on pedigree information only are noted as 'PE' (pedigree estimate).
- BIO$: This is an index that considers several traits in determining better bulls when mated to average cows and is aiming at efficient lean meat production for a market focused on AA carcasses between 775 and 900 pounds. Use the BIO$ index to identify top prospect bulls and then look at specific ABC's within that group for traits that you value in your operation.
- ABCs (Across Breed EPDs) for all animals evaluated by BIO are on a fixed base. The base is a multi-breed average of animals born 1995-1998:

Trait	CE	BW	WG	MILK	PWG	YG	FAT	REA	%IMF	SC	BIO$
Base	0	0	+30	+15	+20	+50	0	0	0	0	+2000

Report Definitions and Legend

Herd Measurements (BIO believes in Whole Herd Recording)

CE - ***Calving Ease*** - The ease or difficulty with which the animal was born. The categories are unassisted (U), easy pull (E), hard pull (H), surgical (S) or malpresentation (M).
BW - ***Birth weight (lbs)*** of the animal.
AWW - ***Adjusted Weaning Weight (lbs)*** - The on-farm weaning weight of the animal adjusted to 200 days of age. Adjustments are made for age of dam and sex of calf.
WI - ***Weaning Index*** - Within-herd index based on adjusted weaning weight. Use to compare calves in the same pre-weaning management group. A minimum of five calves in a management group is required to receive an index. ET indicates an embryo transplant calf.

Test Evaluation Measurements (based on the animal's performance in the evaluation centre)

SOT - ***Start of Test Weight (lbs)***
EOT - ***End of Test Weight (lbs)***
ADG - ***Average Daily Gain (lbs/day)*** - The regressed average daily gain during the animal evaluation period. All monthly weighings are used in determining the adg.
WPDA - ***Weight Per Day of Age (lbs/day)*** - Weight taken at weigh period divided by days of age and includes birth weight.
HH - ***Hip Height (inches)*** - Height of the animal over the hip bones at EOT.
FRAME - ***Frame Score*** - A 1 to 10 scale calculated using hip height and age, according to Beef Improvement Federation guidelines.
FAT - ***Backfat (mm)*** - Measured ultrasonically between the 12th and 13th ribs (grading site) at the end of the test.
REA & AdjREA - ***Rib Eye Area (square inches)*** - Measured ultrasonically between the 12th and 13th ribs (grading site) at the end of the test. The AdjREA is adjusted to 365 days of age.
%IMF & Adj%IMF - ***Percent Intramuscular Fat (Marbling)*** - Measured ultrasonically between the 12th and 13th ribs (grading site) at the end of test. NR indicates the animal had too little %IMF to measure. Adj %IMF is adjusted to 365 days.
GRADE - ***%IMF expressed as marbling grade (A, AA or AAA)*** - PD indicates practically devoid, which is less than 1.86 %IMF. Animals near the border of a category are shown as a combination of the two categories (i.e. A-AA).
SC & AdjSC - ***Scrotal Circumference (cm)*** - End of test measure of scrotal circumference. Indication of the semen producing ability of the bull. 'ABN' indicates abnormal testicles (size, shape, injury) and no measurement is taken. AdjSC is adjusted Scrotal circumference and is adjusted to one year of age.

Genetic Evaluations - Across Breed EPDS (ABCs)

CE - ***Calving Ease ABC*** - is a genetic prediction of the increase (+) or decrease (-) in percent **unassisted** calvings if the bull is mated with heifers that are an average size and have average calving ability.
BW - ***Birth Weight ABC (lbs)*** - The effect the animal will have on the birth weight of their calves.
WG - ***Weaning Gain ABC (lbs)*** - The ability of the animal's calves to grow from birth to weaning.
MILK - ***Milk/ Mothering ability ABC (lbs of calf at weaning)*** - The ability of a animal's daughters to provide their calves with milk and mothering ability.
PWG - ***Post-Weaning Gain ABC (lbs)*** - Indicates the ability of an animal's calves to grow from weaning to yearling.
YG - ***Yearling Gain ABC (lbs)*** - Indicates the ability of a animal's calves to grow from birth to yearling.
FAT - ***Backfat thickness ABC (mm)*** - The ability of a animal's progeny to deposit backfat (finishing ability), adjusted to a common age.
REA - ***Rib Eye Area ABC (square inches)*** - Predictor of the differences in progeny ribeye area (muscling), adjusted to a common age.
%IMF - ***Intramuscular Fat ABC (Marbling)*** - The ability of a animal's progeny to deposit marbling fat, adjusted to a common age.
SC - ***Scrotal Circumference ABC (cm)*** - Indicates the ability of a bull to transmit scrotal size to male progeny. It is a partial indicator of daughter's age at puberty.

Bull Evaluation EOT Report

201019 MILLER LAND & LIVESTOCK #2

Genetic Evaluations (16 Mar 2010)

Tag 0024 | Pen | Tattoo MILR 24W

Contact **GEORGE & DWAYNE MILLER - MILLER LAND AND LIVESTOCK**
HC/Breed **P CHAROLAIS** **519-587-2755**
Birthdate **01Feb2009** Colour
SireSire **SPARROWS ELDORADO 361L**
Sire **MILR TEDDY BEAR 2T**
Dam **MILR TAMMY 8T**
DamSire **SPARROWS CORTEZ 235P**

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO$
%ab	3	6	76	37	20	41	21	25	40	52	7
ABC Acc	**-6** 22	**4.6** 50	**42** 39	**17** 13	**16** 44	**58** 42	**-.50** 46	**-.22** 40	**-.06** 40	**.58** 60	**1068**
%wb	9	18	58	59	2	14	28	4	57	63	3

CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
E	95	599	101	800	1225	3.50	3.03	52.5	6.3	6	14.3	13.4	2.28	2.06	PD-A	37.5	36.1

Tag 0032 | Pen | Tattoo MILR 32W

Contact **GEORGE & DWAYNE MILLER - MILLER LAND AND LIVESTOCK**
HC/Breed **P CHAROLAIS** **519-587-2755**
Birthdate **21Feb2009** Colour
SireSire **ABC LATORO 263G**
Sire **SPARROWS MONTENEGRO 726T**
Dam **MILR STRAWBERRY 12S**
DamSire **DBKM NAPOLEON 6N**

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO$
%ab	5	7	49	6	72	63	26	18	28	69	11
ABC Acc	**-5** 19	**4.1** 49	**35** 38	**9** 9	**33** 43	**68** 41	**-.43** 47	**-.31** 41	**-.12** 41	**.92** 61	**1412**
%wb	13	22	27	10	44	34	38	1	31	80	5

CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	95	614	90	790	1220	3.67	3.18	53.5	7.0	5	13.3	12.9	1.80	1.71	PD	37.5	36.8

Tag 0037 | Pen | Tattoo MILR 37W

Contact **GEORGE & DWAYNE MILLER - MILLER LAND AND LIVESTOCK**
HC/Breed **P CHAROLAIS** **519-587-2755**
Birthdate **03Mar2009** Colour
SireSire **ABC LATORO 263G**
Sire **SPARROWS MONTENEGRO 726T**
Dam **MILR SHANNON 36S**
DamSire **SPARROWS CORTEZ 235P**

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO$
%ab	9	8	53	15	56	54	39	54	43	56	26
ABC Acc	**-4** 21	**3.9** 50	**36** 40	**12** 11	**29** 44	**64** 42	**-.24** 47	**.10** 42	**-.04** 42	**.67** 61	**2075**
%wb	26	25	30	25	27	26	64	34	64	68	21

CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	95	654	96	805	1235	3.69	3.30	53.5	7.1	6	16.2	15.9	2.30	2.24	PD-A	36.0	35.7

Tag 0039 | Pen | Tattoo MILR 39W

Contact **GEORGE & DWAYNE MILLER - MILLER LAND AND LIVESTOCK**
HC/Breed **P CHAROLAIS** **519-587-2755**
Birthdate **28Mar2009** Colour
SireSire **ABC LATORO 263G**
Sire **SPARROWS MONTENEGRO 726T**
Dam **DBKM SHAGGY 33S**
DamSire **SPARROWS CORTEZ 235P**

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO$
%ab	21	23	98	66	83	95	50	58	57	98	69
ABC Acc	**-2** 21	**1.6** 50	**57** 40	**23** 10	**38** 44	**95** 42	**-.04** 47	**.14** 42	**.06** 42	**2.16** 61	**3288**
%wb	55	61	95	88	61	87	84	41	88	99	66

CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	85	804	118	925	1375	3.85	3.94	54.0	7.7	7	16.0	16.5	2.90	3.03	A	41.0	41.6

Tag 0044 | Pen | Tattoo MILR 44W

Contact **GEORGE & DWAYNE MILLER - MILLER LAND AND LIVESTOCK**
HC/Breed **P CHAROLAIS** **519-587-2755**
Birthdate **09Apr2009** Colour
SireSire **SVY FREEDOM PLD 307N**
Sire **SPARROWS BAJA 561R**
Dam **MILR MISS MARIE 24M**
DamSire **SVY COLOSSAL PLD 870H**

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO$
%ab	31	23	39	23	9	16	27	54	36	60	12
ABC Acc	**-1** 23	**1.7** 52	**32** 41	**14** 12	**10** 45	**42** 43	**-.43** 48	**.11** 43	**-.08** 43	**.75** 61	**1495**
%wb	72	61	19	38	1	2	38	35	49	71	6

CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	90	702	103	735	1025	2.97	3.04	51.0	6.4	5	14.0	14.8	2.11	2.29	PD-A	36.5	37.5

Bull Evaluation EOT Report

201019 MILLER LAND & LIVESTOCK #2

Genetic Evaluations (16 Mar 2010)

Tag **0047**	Pen	Tattoo **MILR 47W**

Contact **GEORGE & DWAYNE MILLER - MILLER LAND AND LIVESTOCK**
HC/Breed **P CHAROLAIS** **519-587-2755**
Birthdate **17Apr2009** Colour
SireSire **SPARROWS ALLIANCE 513G**
Sire **SPARROWS CORTEZ 235P**
Dam **CORNERVIEW NANNY 2N**
DamSire **MNE LEVI 5L**

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO$	
%ab	35	23	78	47	40	59	10	53	42	15	27	
ABC Acc	**0** 25	**1.6** 52	**43** 43	**19** 19	**24** 47	**66** 45	**-.69** 49	**.10** 44	**-.05** 44	**-.74** 62	**2118**	
%wb	76	61	61	71	13	30	9	33	62	7	22	

CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	90	730	107	675	1100	3.77	3.34	52.5	7.2	4	14.6	15.7	2.60	2.88	PD-A	31.0	32.3

Breed Summary Averages

Breed	#	% U	BWT	AWW	SOT	28D	56D	84D	EOT	ADG	WPDA	Hip Height	Frame Score	Back Fat	REA	Adj REA	%IMF	Adj %IMF	Scrotal
CHAROLAIS	6	83	92	684	788	878	1000	1099	1197	3.58	3.31	52.8	7.0	6	14.7	14.9	2.33	2.37	36.6
Group Averages	6	83	92	684	788	878	1000	1099	1197	3.58	3.31	52.8	7.0	6	14.7	14.9	2.33	2.37	36.6