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Bull Evaluation Centre Report

201632 MBRHEO Cattle Bull Test Group 2 (End of Test)

Test Date: **23 Apr 2016** Days on Test: **107**

Centre Manager: **RHEO MACHINA**

Start of Test Date: **07 Jan 2016**

Phone #: **519-327-8646**

End of Test Date: **23 Apr 2016**

E Mail: **rheo@mbrheocattle.com**

Pick Up Date:

Address: **R.R.#1,101021 L1 C6 NORMANBY , CLIFFORD , ON , N0G 1M0**

Ration Statement:

- 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 bioTrack, our Herd Evaluation Service. Calves with incomplete herd data will not receive genetic evaluations nor BIO Economic Indexes. If no data is submitted to BIO, 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. If you have questions on data submission, please contact our office.**

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 avg.

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

201632 MBRHEO Cattle Bull Test Group 2



Genetic Evaluations (09 May 2016)

Tag 0003 Pen **KTW 14C**
 Contact **SHIRLEY AND FRANCIS WEITZEL - KOTONWOOD SIMMENTALS**
 HC/Breed **SIMMENTAL** **519-273-7042**
 Birthdate **27Apr2015** Colour
 SireSire
 Sire
 Dam **KTW 31X**
 DamSire

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO\$
%ab					93		57	42	9	95	
ABC Acc					47 ³⁷		.06 ⁴³	.12 ³⁷	-.23 ³⁷	1.72 ⁵⁸	N/R
%wb					90		83	16	7	86	

	CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	91	617			747	1198	4.27	3.31	52.5	6.8	4	12.3	12.4	1.45	1.46	PD	37.0	37.1

Tag 0004 Pen **KTW 13C**
 Contact **SHIRLEY AND FRANCIS WEITZEL - KOTONWOOD SIMMENTALS**
 HC/Breed **SIMMENTAL** **519-273-7042**
 Birthdate **01May2015** Colour
 SireSire
 Sire
 Dam **KTW 34X**
 DamSire

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO\$
%ab					16		41	42	10	60	
ABC Acc					20 ³⁷		-.19 ⁴³	.12 ³⁷	-.21 ³⁷	.72 ⁵⁸	N/R
%wb					9		53	16	9	27	

	CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	95	679			735	1082	3.26	3.02	54.0	7.6	3	12.3	12.4	1.51	1.54	PD	33.5	33.8

Tag 0009 Pen **BDR 37C**
 Contact **BEV RAE - B BAR D CHAROLAIS**
 HC/Breed **P CHAROLAIS** **519-323-1270**
 Birthdate **21May2015** Colour **WHITE**
 SireSire
 Sire **WHITECAP ENDEAVOUR 122X**
 Dam **BDR 4Y**
 DamSire

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO\$
%ab	10	11			89		23	19	61	89	
ABC Acc	-3 ¹⁷	2.8 ⁴⁸			44 ⁴²		-.41 ^{PE}	-.23 ^{PE}	.08 ^{PE}	1.44 ⁶¹	N/R
%wb	36	40			77		34	1	87	93	

	CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	98	N/A			618	1036	3.99	3.07	52.5	7.1							36.0	37.0

Tag 0015 Pen **AEHW 17C**
 Contact **KEITH GILBERT - GILCROFT FARMS**
 HC/Breed **H MAINE-ANJOU** **613-393-5336**
 Birthdate **14Apr2015** Colour **Red and White**
 SireSire **GEE BAR POLLED SUPER DUDE 710G**
 Sire **CWC Zafar 62Z**
 Dam **AEHW 06X**
 DamSire **GILCROFT TROY 36T**

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO\$
%ab	4	2	40	12	83	67	10	60	61	93	30
ABC Acc	-6 ²⁸	5.6 ⁵⁸	37 ⁴⁷	14 ²²	41 ⁴⁶	78 ⁴⁷	-.61 ⁴⁶	.31 ⁴⁰	.08 ⁴⁰	1.60 ⁶⁰	2719
%wb	22	15	80	40	95	93	50	62	76	98	47

	CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	125	635	90		791	1225	4.08	3.27	54.5	7.6	2	14.4	14.1	2.61	2.54	PD-A	38.0	37.6

Tag 0016 Pen **GTR 14C**
 Contact **GORDON AND TRUDY RAY - TRURAY FARM**
 HC/Breed **P 1/2 CROSSBRED 1/2 MAINE-ANJOU** **705-652-7833**
 Birthdate **10Apr2015** Colour **Black**
 SireSire
 Sire **GTR 3Z**
 Dam **GTR 15Y**
 DamSire

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO\$
%ab					1		20	12	22	23	
ABC Acc					-13 ³⁷		-.44 ⁴³	-.35 ³⁷	-.13 ³⁷	-.04 ⁵⁸	N/R
%wb											

	CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	90	N/A			658	948	2.64	2.50	51.0	5.8	2	11.5	11.2	1.68	1.62	PD	34.0	33.5

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Genetic Evaluations (09 May 2016)

Tag	0019	Pen		Tattoo	DSB 2C
Contact	DONALD M. BURGOMASTER - SHARODON FARM				
HC/Breed	P CHAROLAIS				705-742-4062
Birthdate	04Mar2015	Colour			
SireSire	LT BLUEGRASS 4017P				
Sire	SHARODON WYATT 3W				
Dam	DSB 2T				
DamSire					

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO\$
%ab			69		76	76	22	61	60	6	
ABC Acc			44 PE		39 41	82 PE	-43 45	.33 39	.07 39	-.92 59	N/R
%wb			56		55	57	31	44	86	2	

	CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	94	N/A			767	1177	3.90	2.83	51.0	5.4	3	13.7	12.6	3.01	2.64	A	31.0	29.1

Tag	0020	Pen		Tattoo	DSB 23C
Contact	DONALD M. BURGOMASTER - SHARODON FARM				
HC/Breed	P CHAROLAIS				705-742-4062
Birthdate	22Mar2015	Colour			
SireSire	LT BLUEGRASS 4017P				
Sire	SHARODON WYATT 3W				
Dam	DSB 4W				
DamSire					

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO\$
%ab			77		92	89	18	88	43	37	
ABC Acc			46 PE		46 41	92 PE	-48 45	.64 39	-.04 39	.33 59	N/R
%wb			65		81	78	26	79	54	46	

	CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	96	N/A			715	1154	4.24	2.90	52.0	6.1	3	15.4	14.5	2.24	2.05	PD-A	35.0	33.8

Tag	0021	Pen		Tattoo	DSB 26C
Contact	DONALD M. BURGOMASTER - SHARODON FARM				
HC/Breed	P CHAROLAIS				705-742-4062
Birthdate	01May2015	Colour			
SireSire	MXS VERMILLION 527R				
Sire	MERIT ROUNDUP 9508W				
Dam	DSB 26A				
DamSire					

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO\$
%ab	21	23	74	18	31	53	6	11	58	32	
ABC Acc	-1 PE	1.2 PE	45 PE	15 PE	26 46	71 PE	-.70 50	-.37 45	.05 45	.21 62	N/R
%wb	63	67	62	33	12	30	7	1	82	38	

	CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	98	N/A			413	768	3.33	2.15	48.0	4.6	1	10.0	10.1	2.68	2.73	PD-A	30.0	30.3

Tag	0026	Pen		Tattoo	MAU 31C
Contact	MATTHIAS UNGER - HEARTWOOD FARMS				
HC/Breed	P BLONDE D-AQUITAINE				705-652-1201
Birthdate	09Apr2015	Colour			
SireSire	MAU 4N				
Sire	MAU 126T				
Dam	MAU 86S				
DamSire	MAU 16L				

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO\$
%ab	10	20	13	7	3	4	2	76	19	9	
ABC Acc	-3 PE	1.5 PE	28 PE	11 PE	6 41	34 PE	-.92 44	.48 38	-.15 38	-.67 59	N/R
%wb	15	25	24	20	32	23	91	28	99	77	

	CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	88	N/A			644	971	3.05	2.56	50.5	5.6	2	13.2	12.9	2.61	2.51	PD-A	33.0	32.5

Tag	0027	Pen		Tattoo	MAU 32C
Contact	MATTHIAS UNGER - HEARTWOOD FARMS				
HC/Breed	P BLONDE D-AQUITAINE				705-652-1201
Birthdate	09Apr2015	Colour			
SireSire	GELSTAR T 817X				
Sire	STINEHAVEN XBOX 1X				
Dam	MAU 32R				
DamSire	HEARTWOODS MIGHTY MOE 88M				

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO\$
%ab	14	25	23	19	9	12	2	99	5	1	
ABC Acc	-3 PE	1.0 PE	32 PE	16 PE	16 43	48 PE	-.92 45	1.11 39	-.27 39	-3.06 60	N/R
%wb	23	32	38	40	80	60	89	94	82	1	

	CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	94	N/A			559	940	3.54	2.47	48.5	4.6	3	16.7	16.2	2.19	2.10	PD-A	25.0	24.5

Bull Evaluation EOT Report

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Genetic Evaluations (09 May 2016)

Tag	0030	Pen		Tattoo	RHEO 517C
Contact	RHEO MACHINA - MBRHEO CATTLE CO. INC.				
HC/Breed	P	BLONDE D-AQUITAINE		519-327-8646	
Birthdate	02Apr2015	Colour			
Sire	RHEO 32A				
Dam	CAM 9W				
DamSire					

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIOS\$
%ab	41	65			44		1	91	1	11	
ABC Acc	1 ¹⁵	-2.1 ⁴⁴			30 ³⁷		-0.96 ⁴³	0.71 ³⁷	-0.36 ³⁷	-0.55 ⁵⁸	N/R
%wb	68	84			99		84	60	19	84	

CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	84	N/A		730	1186	4.25	3.06	54.5	7.5	2	15.3	14.7	1.45	1.37	PD	33.5	32.7



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
BLONDE D-AQUITAINE	3	100	89		644	723	819	930	1032	3.61	2.70	51.2	5.9	2	15.1	14.6	2.08	1.99	30.5
CHAROLAIS	4	100	97		628	704	817	943	1034	3.87	2.74	50.9	5.8	2	13.0	12.4	2.64	2.48	33.0
MAINE-ANJOU	1	100	125	635	791	865	995	1106	1225	4.08	3.27	54.5	7.6	2	14.4	14.1	2.61	2.54	38.0
SIMMENTAL	2	100	93	648	741	813	913	1038	1140	3.76	3.17	53.3	7.2	4	12.3	12.4	1.48	1.50	35.3
CROSSBRED	1	100	90		658	716	778	854	948	2.64	2.50	51.0	5.8	2	11.5	11.2	1.68	1.62	34.0
Group Averages	11	100	96	644	671	744	847	963	1062	3.69	2.83	51.7	6.2	3	13.5	13.1	2.14	2.06	33.3

Provision and Use of Information Produced by BIO As part of the terms and conditions of Beef Improvement Ontario (BIO) Beef Evaluation Services, it is understood that information provided by BIO including, but not limited to, genetic and carcass evaluations are produced using the very best knowledge available and are pursuant to generally accepted industry standards. The raw data and pedigree used in calculations is provided by the client. The intent of the information provided by BIO is for comparative purposes only for both the animal consignor and buyer. This information is provided for the purpose of general guidance only to beef producers. The purchaser and/or user of this information agrees to hold Beef Improvement Ontario harmless for any losses or damages that may be incurred as a result of receipt of and/or reliance upon this general comparative information. This clause shall be a complete defense to any claim brought by the purchaser and/or user in relation to such services.