

Bull Evaluation Centre Report

201333 Highfields Bull Test Centre (End of Test) Test Date: 30 Mar 2013 Days on Test:105

Centre Manager: JIM MUIR Start of Test Date: 15 Dec 2012

Phone #: 519-939-1990 End of Test Date: 30 Mar 2013

EMail: jimclyde@hotmail.com Pick Up Date:

Address: 18294 CENTREVILLE CREEK, CALEDON, ON, L7K 2L7

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 (Ibs/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 (Ibs/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 <u>unassisted</u> calvings if the bull is mated with heifers that are an average size and have average calving ability.

BW - Birth Weight ABC (Ibs) - The effect the animal will have on the birth weight of their calves.

WG - Weaning Gain ABC (Ibs) - The ability of the animal's calves to grow from birth to weaning.

MILK - Milk/ Mothering ability ABC (Ibs 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 (Ibs) - Indicates the ability of an animal's calves to grow from weaning to yearling.

YG - Yearling Gain ABC (Ibs) - 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

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				Genetic	Evalu	atior	ns (02 .	Apr 20	13)											•	6 6	
Tag 000)1	Pen 1	Tattoo	PT 4Z			CE	BW	WG	1	Иilk	PWG	Y	G	FAT		REA	%IMF	= {	SC	BIO\$	
Contact HC/Breed Birthdate SireSire	S	HORTHORN 12012	AU Colour	905-873-4759	%ab ABC %wb	Acc						26 22 38 24			52 . 03 8	43	53 . 12 37 87	69 . 31 3	37 .3	38 32 58 78	N/R	
Sire	GLEN	HAVEN OMAH IROTHES LILL ADYBROOK RE	IAN 21U		CE	BW 105	AWW N/A	WI	SOT 1015	EOT 1500	ADG 4.62	WPDA 3.49	HH 55.5	Frame 7.5	Fat 4	15.7	AdjREA	%lmf 3.38	Adj%lmf 2.87	Grade A	SC 38.0	AdjSC 35.6
Tag 000)2	Pen 1	Tattoo	GWJ 4Z			CE	BW	WG	1	Milk	PWG	Y	G	FAT		REA	%IMF	= {	SC SC	BIO\$	
	WILL A 03Jar	IAM G. JACKS INGUS	ON - TULLAMORE Colour	905-843-1236	%ab ABC %wb		87 5 22 60	86 -4.1 50	26 32 4 23	10	30 17 14	98 53 44 94	84 85 73	42	97 1.74 93	47	5 56 41	68 . 29 4	41 .6	53 66 61 86	49 2988 37	
Sire	SOUT	THLAND FULL SVIEW ANN 6	THROTTLE 15R R ELER NITRO 47		CE	BW 87	AWW 535	WI 96	SOT 862	EOT 1430	ADG 5.36	3.16	НН 52.5	Frame		REA 13.4	AdjREA	%lmf 3.21	Adj%lmf 2.59	Grade A	SC 39.0	AdjSC 35.8
Tag 000		Pen 1	Tattoo	GWJ 5Z			CE	BW	WG		Иilk	PWG	Y	G	FAT		REA	%IMF	=	SC SC	BIO\$	
HC/Breed Birthdate SireSire Sire	04Jar TC I SOUT	NGUS 12012 FREEDOM 104 THLAND FULL	ON - TULLAMORE Colour THROTTLE 15R	905-843-1236	%ab ABC %wb		93 6 22 76	92 - 5.1 51 76	61 40 4 61	10 2	48 20 14 33	94 48 44 86 WPDA	78	42	72 . 78 19	47	3 60 41 9	69 .31 4 8	41 1	20 19 60 4	46 2926 34	AdjSC
Dam DamSire		AMERE 0502 R R US PREMIU			U	83	585	105	900	1432	4.97	3.18	54.0	6.5	5	13.3	11.6	3.05	2.47	A	36.0	32.9
Tag 000		Pen 1	Tattoo	GWJ 10Z			CE	BW	WG	ı	Иilk	PWG	Y	G	FAT		REA	%IMF	: 5	SC	BIO\$	
HC/Breed Birthdate SireSire	A 08Jar	NGUS	ON - TULLAMORE Colour	905-843-1236	%ab ABC %wb		92 6 20 73	93 -5.3 48 79	42 36 3 40	38 '	35 18 12 19	99 57 43 96	92 93 86	41	82 1.07 47	46	3 64 41 7	64 . 20 4	40 .3	39 35 60 17	55 3147 42	
Sire	SOUT		THROTTLE 15R LLAMORE 60L		CE	80	536	WI 97	SOT 820	EOT 1380	ADG 5.46	3.09	HH 52.5	Frame	Fat 8	12.8	AdjREA	%lmf 2.71	Adj%lmf 2.21	Grade PD-A	SC 38.0	AdjSC 35.0
Tag 000)5	Pen 1	Tattoo	GWJ 12Z			CE	BW	WG		Milk	PWG	Y	G	FAT		REA	%IMF	= {	SC SC	BIO\$	
Contact HC/Breed Birthdate SireSire	A 10Jar	NGUS	ON - TULLAMORE Colour	905-843-1236	%ab ABC %wb		85 4 26 55	85 -3.9 54 56	19 29 4 15	14 2	44 20 22 28	75 37 47 50	48 67 30	46	85 1.13 53	48	1 71 43	76 . 40 4 24	42 .8	64 35 PE 51	N/R	
Sire	SOUT		THROTTLE 15R		CE	BW 89	AWW	WI	SOT	EOT	ADG	WPDA	НН	Frame	Fat	REA	AdjREA	%lmf	Adj%lmf	Grade	SC ABN	AdjSC

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Genetic Evaluations (02 Apr 2013)

Tag 0006 Pen 1 Tattoo	GWJ 14Z			CE	BW	WG	1	Milk	PWG	Y	G	FAT		REA	%IMF		SC	BIO\$	
Contact WILLIAM G. JACKSON - TULLAMORE HC/Breed ANGUS Birthdate 11Jan2012 Colour	905-843-1236	%ab ABC A %wb		77 3 21 37	73 -2.7 49 34	55 39 : 54	39	44 20 14 28	89 43 43 73	79 82 67	2 41	76 . 90 29	46 -	2 . 67 41	68 . 29 40	.7	58 75 60	29 2450 18	
SireSire TC FREEDOM 104 Sire SOUTHLAND FULL THROTTLE 15R		CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	НН	Frame	Fat	REA	AdjREA	%lmf /	dj%lmf	Grade	SC	AdjSC
Dam GWJ 58J DamSire GWJ 12G		U	91	571	103	860	1370	4.88	3.09	55.5	7.4	7	12.7	11.2	3.16	2.60	Α	39.5	36.6
Tag 0007 Pen 1 Tattoo	PL 1Z			CE	BW	WG	1	Milk	PWG	Y	G	FAT		REA	%IMF		SC SC	BIO\$	
Contact MIKE THOMAS - POPLAR LANE FARM HC/Breed SHORTHORN Birthdate 30Jan2012 Colour	519-941-6866	%ab ABC A %wb	VCC		41 2 PE 70	15 28 F 50	PE :	71 25 PE 46	1 -7 41 1	2 21 1		68 . 63 87	43	88 . 54 37	95 .64 37		35 2 4 58	N/R	
SireSire Sire Dam SHADYBROOK FRANCINE 7S DamSire		CE	BW 95	AWW N/A	WI	SOT 1180	EOT 1487	ADG 3.09		НН 56.5	Frame 8.0	Fat 8	REA 18.1	AdjREA	%lmf / 4.93	dj%lmf 4.23	Grade AA-AAA	SC 38.0	AdjSC 35.8

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Genetic Evaluations (02 Apr 2013)

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
ANGUS	5	100	86	555	861	1016	1163	1293	1391	5.04	3.11	53.0	6.1	8	13.0	11.4	3.12	2.55	38.1
SHORTHORN	2		100		1098	1208	1335	1438	1494	3.85	3.50	56.0	7.8	6	16.9	15.1	4.16	3.55	38.0
Group Averages	7	71	90	555	928	1071	1212	1334	1421	4.70	3.22	53.9	6.5	8	14.1	12.5	3.42	2.83	38.1

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.

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