

Bull Evaluation Centre Report

201525 MBRHEO CATTLE BULL TEST #1 (End of Test) Test Date: 20 Apr 2015 Days on Test:105

Centre Manager: RHEO MACHINA Start of Test Date: 05 Jan 2015

Phone #: 519-327-8646 End of Test Date: 20 Apr 2015

EMail: rheo@mbrheocattle.com Pick Up Date:

Address: R.R.#1,101021 L1 C6 NORMANBY, CLIFFORD, ON, NOG 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.

Open House: Saturday April 25th, 11-3pm

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	ΥG	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 (Ibs) of the animal.

AWW - Adjusted Weaning Weight (Ibs) - 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.

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				Genetic	Evalu	atior	ıs (23	Apr 20	15)													
Tag 000	1	Pen	Tattoo	CCA 1B			CE	BW	WG		Milk	PWG	Y	G	FAT		REA	%IMF	S	С	BIO\$	
HC/Breed Birthdate	BL 03Jan2	ONDE D-AQUI	NEVAN - HILL TOP ORG TAINE Colour	CHARD 705-295-6208	%ab ABC / %wb	Acc	12 -3 PE 20	23 1.3 53 27	5 21 F 7		9 12 PE 22	1 -2 47	1 19 5	PE ·	1 -1.30 17	49	98 . 90 41 91	1 37 39		. 11	N/R	
	_	HA 1E HAVEN TRUDY	/ 20T OLLED PERY 17P		CE	BW 96	AWW 640	WI	SOT 907	EOT 1232	ADG 3.12	WPDA 2.61	HH 54.0	Frame 6.3	Fat 3	REA 18.9			Adj%lmf	Grade PD	SC 32.5	AdjSC 28.6
Tag 000		Pen	Tattoo	SAA 3B			CE	BW	WG		Milk	PWG	Y	G	FAT		REA	%IMF	S	С	BIO\$	
Contact HC/Breed Birthdate SireSire	BL 07Feb2	ONDE D-AQUI	Colour	CHARD 705-295-6208	%ab ABC A %wb	Acc	11 -3 PE 18	16 2.2 64 16	37 35 F 59	E	96 34 PE 98	13 17 51 84	20 53 76	PE ·	1 -1.22 24	50	72 .38 41 38	11 20 4 ⁻ 93	10 6 9	9 63	N/R	
	_	K NORTHERN			CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	НН	Frame	Fat	REA	AdjREA	%lmf /	Adj%lmf	Grade	SC	AdjSC
Dam DamSire		NEATH TAMI 2 [.] REX 6R	1T			94	546		740	1119	3.51	2.56	51.0	5.2	2	15.3	13.5	2.35	1.96	PD-A	34.5	31.9
Tag 000	3	Pen	Tattoo	MAU 1B			CE	BW	WG		Milk	PWG	Y	G	FAT		REA	%IMF	S	С	BIO\$	
Contact HC/Breed Birthdate	P BL	ONDE D-AQUI	HEARTWOOD FARMS TAINE Colour	705-652-1201	%ab ABC A		22 -1 PE 41	38 . 0 PE 53	36 35 F 58	Έ	20 16 PE 40	19 21 43	25 56 81	PE .	1 -1.28 18	43	94 . 72 37	1 39 37	-1.8 ⁻	1 58	N/R	
	STINE	STAR T 817X HAVEN XBOX			CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	1 -	Frame		REA	AdjREA			Grade	SC	AdjSC
Dam DamSire		WOODS NAOI N DELL 38D	MI 3N			92	N/A		880	1295	3.97	2.74	53.0	5.8	2	19.9	16.4	1.53	1.18	PD	33.0	29.1
Tag 000	4	Pen	Tattoo	GTR 17B			CE	BW	WG		Milk	PWG	Y	G	FAT		REA	%IMF	S	С	BIO\$	
Contact HC/Breed Birthdate SireSire	M <i>A</i> 20Mar2	AINE-ANJOU	Y RAY - TRURAY FARM	705-652-7833	%ab ABC / %wb	Acc						14 18 39 25			2 81 4	44	24 21 38	52 . 03 38 63	3° 31° 38°	7 59	N/R	
		AY S WAR LOR			CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	НН	Frame	Fat	REA	AdjREA	%lmf /	Adj%lmf	Grade	SC	AdjSC
Dam DamSire		NY S WILLOW : NERSTONE RA	-			N/A	N/A		683	1085	3.59	2.74	50.5	5.4	2	14.6	13.8	2.51	2.31	PD-A	35.5	34.4
Tag 000	5	Pen	Tattoo	DSB 10B			CE	BW	WG		Milk	PWG	Y	G	FAT		REA	%IMF	S	С	BIO\$	
Contact HC/Breed Birthdate SireSire	CH	IAROLAIS	MASTER - SHARODON Colour	FARM 705-742-4062	%ab ABC / %wb	Acc						36 27 37 14			47 06 75	43	50 . 15 37 26	35 06 37 40	720	0 58	N/R	
Sire					CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	НН	Frame	Fat	REA	AdjREA	%lmf /	Adj%lmf	Grade	SC	AdjSC
Dam DamSire						N/A	N/A		818	1238	3.91	2.91	52.0	5.8	6	16.8	15.1	2.34	2.01	PD-A	35.5	33.3

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Genetic Evaluations (23 Apr 2015)

				Genetic	Evalu	atior	าร (23	Apr 20	15)											•	6 6	X
Tag 000	6	Pen	Tattoo	BDR 31B			CE	BW	WG	N	/lilk	PWG	Y	G	FAT		REA	%IMF	S	SC	BIO\$	
Contact HC/Breed Birthdate SireSire	С	RAE - B BAR D HAROLAIS 02014	CHAROLAIS Colour	519-323-1270	%ab ABC A %wb	Acc		9 3.2 48 36				99 61 43 98			2 87 1	48	3 62 42	62 . 11 42 92	.1	6 62 66	N/R	
	WHIT	ECAP ENDEAV	OUR 122X		CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	НН	Frame	Fat	REA	AdjREA	%lmf A	.dj%lmf	Grade	SC	AdjSC
Dam DamSire	BRID	OR JILLIAN 7J				100	N/A		660	1162	4.72	2.69	52.5	6.0	2	13.2	11.8	3.25	2.75	Α	36.5	34.1
Tag 000	7	Pen	Tattoo	BDR 34B			CE	BW	WG	N	⁄lilk	PWG	Y	G	FAT		REA	%IMF	S	SC	BIO\$	
HC/Breed Birthdate	C 24Feb	-	Colour	519-323-1270	%ab ABC A		4 -5 PE 14	5 4.2 51 21	38 36 P 23	E 1	38 1 9 PE	19 21 44	25 56 9	PE	23 37 34	48	1 82 42	69 . 25 42	1	21 1 61	N/R	
SireSire Sire		:ASANTDAWN			CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	НН	Frame	Fat	REA	AdjREA	%lmf A	.dj%lmf	Grade	SC	AdjSC
		/ICTORIA 19R / FREEDOM PL	D 307N			105	N/A		661	1071	3.74	2.55	51.5	5.6		11.8	,		3.12	A-AA	35.5	33.5
Tag 000	8	Pen	Tattoo	GSW 1B			CE	BW	WG	N	/lilk	PWG	Y	G	FAT		REA	%IMF	S	SC	BIO\$	
Contact HC/Breed Birthdate SireSire	G 22Ma	ELBVIEH	ON - GSW GELBVIEH Colour	519-376-8413	%ab ABC A %wb		93 6 PE 85	95 -5.5 PE 88	53 39 P 48	E 2	52 22 PE 7	62 34 48 93	60 73 74	PE	19 43 50	50 •	27 16 45 48	36 05 45 69	1.8	95 8 1 63	N/R	
Sire Dam	ARN S	SIR ARNOLD B	921		CE	BW 88	597	WI		EOT 1196	ADG 4.14	3.04	HH 54.5	Frame 7.4		15.3	AdjREA		.dj%lmf 2.17	Grade PD-A	SC 38.0	AdjSC 36.9
Tag 000	9	Pen	Tattoo	GSW 2B			CE	BW	WG	l N	⁄lilk	PWG	Y	G	FAT		REA	%IMF	S	SC	BIO\$	
Contact HC/Breed Birthdate SireSire	G 23Ma	ELBVIEH	ON - GSW GELBVIEH Colour	519-376-8413	%ab ABC A %wb	Acc		97 -6.1 PE 92	47 38 P 41	E		9 14 39 18	19 52 28	PE	41 15 77	43	8 47 37	22 12 37 24	.5	8 6 4 58	N/R	
	_	GARTH J040 ET	-		CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	НН	Frame	Fat	REA	AdjREA	%lmf A	.dj%lmf	Grade	SC	AdjSC
Dam : DamSire		ACE OF SPADE TUXEDO 34T E				98	682		842	1218	3.69	3.10	53.0	6.7	6	14.1	13.4	2.25	2.09	PD-A	35.5	34.5
Tag 001	0	Pen	Tattoo	GSW 4B			CE	BW	WG	N	/lilk	PWG	Y	G	FAT		REA	%IMF	8	SC	BIO\$	
HC/Breed Birthdate	G 27Ma	ELBVIEH r2014	ON - GSW GELBVIEH Colour	519-376-8413	%ab ABC A %wb	Acc			17 29 P 17	E		2 2 40 1	4 32 4	PE	18 44 49	44	67 . 34 38 99	18 15 38	1.2	34 !9 59	N/R	
SireSire Sire		R BAR GT FLA COLLATERAL	SHBACK 410M ET 2R		CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	НН	Frame	Fat	REA	AdjREA	%lmf A	.dj%lmf	Grade	SC	AdjSC
Dam DamSire		IG LADY 6Y PLD FREE AGE	EN 125 J3			88	663		814	1170	3.25	3.01	51.0	5.7	4	18.9	18.0	2.05	1.92	PD-A	37.5	36.6

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Genetic Evaluations (23 Apr 2015)

	Genetic	Evaluat	ions (23	Apr 20	15)							`	0.0	
Tag 0011 Pen Tattoo	CFL 1B		CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO\$	
Contact JOHN FLAHERTY - CUDDY FA HC/Breed ANGUS Birthdate 01Jan2014 Colour SireSire C R A BEXTOR 872 5205 608	RMS 519-652-9822	%ab ABC Acc %wb	93 6 35 76	88 - 4.1 59 65	64 42 49 63	53 22 30 42	88 43 49 73	82 85 49 71	88 1.20 4 59	27 16 43	85 . 49 43 48	21 10 62 6	66 3591 59	
Sire TC ABERDEEN 759		CE E	w aww	WI	SOT	EOT ADO	G WPDA	HH Fram	ne Fat	REA AdjREA	A %Imf Ac	lj%lmf Grade	sc	AdjSC
Dam Sire SANDPOINT ENAMEL 6123 S A V 8180 TRAVELER 004		U	76 N/A	ET	919	1408 4.58	3 2.97	53.0 5.8	3 11	16.7 13.9	3.90	3.00 A-AA	36.0	32.0
Tag 0012 Pen Tattoo	CFL 2B		CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO\$	
Contact JOHN FLAHERTY - CUDDY FA HC/Breed ANGUS Birthdate 01Jan2014 Colour	RMS 519-652-9822	%ab ABC Acc	83 4 26 49	76 -2.8 54 38	37 35 43	35 19 17 21	70 37 42 43	57 72 43 39	98 1.85 4 95	11 41 38	87 . 52 38 55	72 . 98 59 66	29 2620 21	
SireSire S CHISUM 6175 Sire TRIARA POWERHOUSE 699Y		CE E	w aww	WI	SOT	EOT ADO	G WPDA	HH Fram	ne Fat	REA AdjREA	A %Imf Ac	lj%lmf Grade	s SC	AdjSC
Dam TRIARA EVERELDA ENTENSE DamSire G T SHEAR FORCE	689U		79 639	98		1444 3.83		52.5 5.6				3.28 AA	39.5	-
Tag 0013 Pen Tattoo	CFL 5B		CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO\$	
Contact JOHN FLAHERTY - CUDDY FA HC/Breed ANGUS Birthdate 09Feb2014 Colour SireSire B C LOOKOUT 7024	RMS 519-652-9822	%ab ABC Acc %wb	83 4 23 47	83 -3.5 50 53	58 40 40 55	85 29 13 82	14 18 43 2	29 58 42 13	80 . 93 4 35	35 05 39 88	66 . 19 39	69 . 92 60 63	24 2457 17	
Sire DRM LOOKOUT 5Z Dam HARPREY BARBARA MCHENF DamSire PEAK DOT RESOLUTE 37W	RY 3Z		W AWW 72 667	103		EOT ADO		HH Fram 51.0 5.2		REA AdjREA 17.2 15.2		lj%lmf Grade 2.11 PD-A		AdjSC 35.4
Tag 0014 Pen Tattoo	CFL 9B		CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO\$	
Contact JOHN FLAHERTY - CUDDY FA HC/Breed ANGUS Birthdate 26Feb2014 Colour SireSire B C LOOKOUT 7024	RMS 519-652-9822	%ab ABC Acc %wb	93 6 22 79	95 -5.4 50 84	76 45 40 76	85 28 13 82	61 34 43 32	72 79 42 57	93 1.41 4 77	26 17 39 68	65 . 16 39	83 1.24 59 81	50 3167 41	
Sire DRM LOOKOUT 5Z Dam DRM MISS MORGAN 8Z DamSire S A V 004 PREDOMINANT 44	38		W AWW 66 675	WI 104		EOT ADO		HH Fram 51.0 5.4		REA AdjREA 15.8 14.4		lj%lmf Grade 2.08 PD-A		AdjSC 36.6
Tag 0015 Pen Tattoo	DPAF 4B		CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO\$	
Contact J.D. MCFARLANE - DEER PAR HC/Breed ANGUS Birthdate 08Feb2014 Colour		%ab ABC Acc	91	91 - 4.6 PE 73	57		34 26 43	45	90 1.31 4	34	97 . 72 42 92	87 1.40 61 87	N/R	
SireSire CONNEALY CONSENSUS CONNEALY CONSENSUS 7229)	CE E	w Aww	WI	SOT	EOT ADO	G WPDA	HH Fram	ne Fat	REA AdjREA	A %Imf Ac	lj%lmf Grade	s SC	AdjSC
Dam DRM 14P MISS MORGAN 28Y DamSire BC EAGLE EYE 110-7		١	I/A N/A		1068	1474 3.80	3.38	52.5 5.9	11	18.0 15.8	5.08	1.25 AA-AA	40.0	37.4

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Genetic Evaluations (23 Apr 2015)

			Genetic	∟vaiu	ations	5 (23 /		13)													
Tag 006B	Pen	Tattoo	HOF 47B		(CE	BW	WG		Milk	PWG	Y	G	FAT		REA	%IMF	S	С	BIO\$	
		NEVAN - HILL T		%ab			77	43		68	3	10		1		83	18		4		
	BLONDE D-AQU	IITAINE	705-295-6208	ABC A	СС		-2.9 51	37	39	25 10	7 45	44	42	93	47 .	.50 42	15 4	2 -1.2	1 61	N/R	
Birthdate 15Ma	ar2014	Colour		%wb			93	65		84	38	54	.	90		58	98	3	1		
SireSire NO	RLOCK NICK 8	N																			
Sire ROS	EPARK SULTAN	N 2S		CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%lmf	Adj%lmf	Grade	SC	AdjSC
Dam PLE	ASANT VALLEY	ROXY 7R			86	630		850	1242	3.82	3.10	54.0	7 1	3	17.9	16.7	2.60	2.37	PD-A	32.5	31.2
DamSire HA	RKDALE KOJAI	K 25K			00	000		000	1272	0.02	0.10	54.0	7.1	3	17.9	10.7	2.00	2.07	107	02.0	

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Unofficial



Genetic Evaluations (23 Apr 2015)

Tag 0016	Pen	Tattoo	DPAF 15B		C	CE	BW	WG	l N	/lilk	PWG	Y	'G	FAT		REA	%IMI	= s	C	BIO\$	
Contact J.D.	MCFARLANE	- DEER PARK ANG	GUS	%ab																	
HC/Breed	ANGUS		519-652-8413	ABC A	СС															N/R	
Birthdate		Colour		%wb																	
SireSire																					
Sire				CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	НН	Frame	Fat	REA	AdjREA	%lmf	Adj%lmf	Grade	SC	AdjSC
Dam					N/A	N/A		1131	1483	3.24		53.0		Ω	16.8		3.73		A-AA	38.0	35.7
DamSire					14//1	14/71		1101	1 700	0.24		00.0		0	10.0		0.70		,,,,,,		

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Genetic Evaluations (23 Apr 2015)

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	80	73	660	922	1054	1187	1251	1338	3.88	2.99	52.0	5.6	10	16.8	14.5	3.63	2.95	38.4
BLONDE D-AQUITAINE	4		92	605	844	957	1080	1156	1222	3.61	2.75	53.0	6.1	3	18.0	15.6	2.05	1.71	33.1
CHAROLAIS	3		103		713	840	973	1049	1157	4.12	2.72	52.0	5.8	4	13.9	12.6	3.06	2.63	35.8
GELBVIEH	3		91	647	805	925	1047	1126	1195	3.69	3.05	52.8	6.6	5	16.1	15.3	2.21	2.06	37.0
MAINE-ANJOU	1				683	810	929	963	1085	3.59	2.74	50.5	5.4	2	14.6	13.8	2.51	2.31	35.5
Group Averages	16	25	88	638	827	950	1078	1148	1233	3.80	2.88	52.3	5.9	6	16.3	14.5	2.79	2.37	36.2
Unofficial	1				1131	1251	1350	1408	1483	3.24	.00	53.0		8	16.8		3.73		38.0

Note: Measurements from Unofficial Bulls are not included in the Group Averages above.

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 providend 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.