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## Bull Evaluation Centre Report

**201703 GRIST FARM**

**( End of Test )**

**Test Date: 12 Feb 2017 Days on Test:112**

Centre Manager: **DAVID GRIST**

Start of Test Date: **23 Oct 2016**

Phone #: **519-855-9540**

End of Test Date: **12 Feb 2017**

E-Mail: **dgrist@hotmail.ca**

Pick Up Date:

Address: **6031 4th Line , ORTON , ON , L0N 1N0**

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 (99<sup>th</sup> percentile) is in the top 1% of all animals evaluated for that trait or index; a bull in the 80<sup>th</sup> 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

## 201703 GRIST FARM



### Genetic Evaluations (21 Feb 2017)

Tag	106D	Pen		Tattoo		GRFA	106D
Contact	DAVID GRIST - GRIST FARM						
HC/Breed	ANGUS						519-855-9540
Birthdate	12Jan2016	Colour					
SireSire	G A R GRID MAKER						
Sire	S A V BISMARCK 5682						
Dam	HIGHGROVE FINAL PRIDE 15W						
DamSire	S A V FINAL ANSWER 0035						

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIOS							
%ab	99	99	98	74	99	99	89	29	75	56								
ABC Acc	9 <sup>39</sup>	-7.8 <sup>61</sup>	63 <sup>51</sup>	27 <sup>37</sup>	60 <sup>52</sup>	123 <sup>52</sup>	1.17 <sup>PE</sup>	-0.08 <sup>PE</sup>	.30 <sup>PE</sup>	.64 <sup>PE</sup>	N/R							
%wb	97	97	98	71	98	99	54	86	6	48								
	CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	83	801	110		1125	1505	3.02	3.79										

Tag	112D	Pen		Tattoo		GRFA	112D
Contact	DAVID GRIST - GRIST FARM						
HC/Breed	ANGUS						519-855-9540
Birthdate	12Jan2016	Colour					
SireSire	G A R GRID MAKER						
Sire	S A V BISMARCK 5682						
Dam	GRFA 218B						
DamSire	APJK 802Y						

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIOS							
%ab	35	47	47	79	80	69	86	25	83	48								
ABC Acc	0 <sup>37</sup>	-8 <sup>58</sup>	39 <sup>50</sup>	28 <sup>30</sup>	40 <sup>50</sup>	79 <sup>50</sup>	1.07 <sup>PE</sup>	-1.14 <sup>PE</sup>	.44 <sup>PE</sup>	.50 <sup>PE</sup>	N/R							
%wb	4	10	45	77	57	55	42	81	29	36								
	CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
E	106	757	104		968	1250	2.50	3.15										

Tag	113D	Pen		Tattoo		GRFA	113D
Contact	DAVID GRIST - GRIST FARM						
HC/Breed	ANGUS						519-855-9540
Birthdate	13Jan2016	Colour					
SireSire	SITZ TRAVELER 8180						
Sire	S A V FINAL ANSWER 0035						
Dam	NEILCAIRN UPWARD HEADLINER 52B						
DamSire	SITZ UPWARD 307R						

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIOS							
%ab	42	44	95	95	97	97	91	21	83	60								
ABC Acc	1 <sup>37</sup>	-6 <sup>56</sup>	57 <sup>49</sup>	34 <sup>32</sup>	52 <sup>52</sup>	109 <sup>51</sup>	1.26 <sup>PE</sup>	-2.21 <sup>PE</sup>	.45 <sup>PE</sup>	.70 <sup>PE</sup>	N/R							
%wb	6	9	95	95	93	96	63	70	32	52								
	CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
E	105	792	109		1005	1320	2.61	3.33										

Tag	115D	Pen		Tattoo		GRFA	115D
Contact	DAVID GRIST - GRIST FARM						
HC/Breed	ANGUS						519-855-9540
Birthdate	15Jan2016	Colour					
SireSire	BALDRIDGE KABOOM K243 KCF						
Sire	CONNEALY THUNDER						
Dam	FIRST LINE GERTIE 32						
DamSire	S A V BISMARCK 5682						

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIOS							
%ab	96	95	23	74	63	43	80	11	84	47								
ABC Acc	7 <sup>34</sup>	-5.6 <sup>57</sup>	32 <sup>49</sup>	27 <sup>31</sup>	35 <sup>52</sup>	67 <sup>51</sup>	.88 <sup>PE</sup>	-3.38 <sup>PE</sup>	.45 <sup>PE</sup>	.47 <sup>PE</sup>	N/R							
%wb	87	87	20	71	34	26	22	38	33	35								
	CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	87	647			878	1190	2.48	3.02										

Tag	119D	Pen		Tattoo		GRFA	119D
Contact	DAVID GRIST - GRIST FARM						
HC/Breed	RED ANGUS						519-855-9540
Birthdate	19Jan2016	Colour					
SireSire	RED LJC LANCER 806						
Sire	RED LJC MISSION STATEMENT P27						
Dam	Red Majestic Floress						
DamSire	RED MAJESTIC RUBICON N 124R						

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIOS							
%ab	96	98	78	65	95	92	82	16	84	83								
ABC Acc	7 <sup>33</sup>	-6.7 <sup>57</sup>	47 <sup>46</sup>	25 <sup>29</sup>	49 <sup>49</sup>	95 <sup>48</sup>	.95 <sup>PE</sup>	-2.29 <sup>PE</sup>	.46 <sup>PE</sup>	1.21 <sup>PE</sup>	N/R							
%wb	87	94	77	60	87	86	29	56	35	84								
	CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	84	752	104		1025	1365	2.66	3.50										

# Bull Evaluation EOT Report

## 201703 GRIST FARM



Genetic Evaluations (21 Feb 2017)

Tag	Pen	Tattoo	GRFA
120D			120D
Contact	DAVID GRIST - GRIST FARM		
HC/Breed	RED ANGUS		519-855-9540
Birthdate	20Jan2016	Colour	
SireSire	RED LJC LANCER 806		
Sire	RED LJC MISSION STATEMENT P27		
Dam	Red Ginn Sakic Heather 2Y		
DamSire	RED SIX MILE SAKIC 832S		

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIOS						
%ab	80	82	62	96	80	75	74	24	83	81							
ABC Acc	4 <sup>33</sup>	-3.4 <sup>55</sup>	42 <sup>47</sup>	35 <sup>28</sup>	40 <sup>49</sup>	82 <sup>48</sup>	.69 <sup>PE</sup>	-.16 <sup>PE</sup>	.44 <sup>PE</sup>	1.16 <sup>PE</sup>	N/R						
%wb	43	52	61	96	56	63	8	79	29	81							
CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	97	811	112	1125	1395	2.37	3.59										

Tag	Pen	Tattoo	GRFA
211D			211D
Contact	DAVID GRIST - GRIST FARM		
HC/Breed	ANGUS		519-855-9540
Birthdate	11Feb2016	Colour	
SireSire	RED MESSMER PACKER S008		
Sire	GRFA 121A		
Dam	NORTH PERTH ELAINE 908		
DamSire	J D SLAP SHOT 3S		

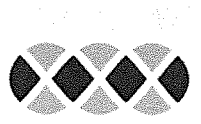
	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIOS						
%ab	37	23	57	83	98	93											
ABC Acc	0 <sup>27</sup>	1.2 <sup>56</sup>	41 <sup>45</sup>	29 <sup>21</sup>	57 <sup>44</sup>	98 <sup>45</sup>					N/R						
%wb	5	2	55	82	96	89											
CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	116	766	106	945	1290	2.85	3.51										

Tag	Pen	Tattoo	GRFA
218D			218D
Contact	DAVID GRIST - GRIST FARM		
HC/Breed	RED ANGUS		519-855-9540
Birthdate	18Feb2016	Colour	
SireSire	RED MESSMER PACKER S008		
Sire	GRFA 121A		
Dam	GRFA 317A		
DamSire	RED CATTLELAC BADA BING 903W		

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIOS						
%ab	96	95	58	70	98	92											
ABC Acc	7 <sup>27</sup>	-5.5 <sup>55</sup>	41 <sup>45</sup>	26 <sup>14</sup>	54 <sup>44</sup>	96 <sup>45</sup>					N/R						
%wb	88	86	57	67	95	87											
CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	82	677	93	806	1140	2.74	3.17										

Tag	Pen	Tattoo	RIW
608D			608D
Contact	DAVID GRIST - GRIST FARM		
HC/Breed	ANGUS		519-855-9540
Birthdate	15Jan2016	Colour	
SireSire	A A R TEN X 7008 S A		
Sire	IMP 3022A		
Dam	NORTH PERTH BLACKCAP MAY 416		
DamSire	S A V PRIORITY 7283		

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIOS						
%ab	91	91	79		86	86											
ABC Acc	5 <sup>PE</sup>	-4.6 <sup>PE</sup>	47 <sup>PE</sup>		43 <sup>43</sup>	90 <sup>PE</sup>					N/R						
%wb	71	74	78		68	78											
CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	58	N/A		780	1080	2.36	2.74										



**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	6	67	93	753	950	1069	1144	1173	1273	2.64	3.26									
RED ANGUS	3	100	88	747	985	1107	1160	1212	1300	2.59	3.42									
Group Averages	9	78	91	750	962	1082	1149	1186	1282	2.62	3.31									

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