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## Bull Evaluation Centre Report

**201902 FIRST LINE ANGUS**

**( End of Test )**

**Test Date: 27 Feb 2019 Days on Test:116**

Centre Manager: **BRIAN WHITWELL**

Start of Test Date: **03 Nov 2018**

Phone #: **905-768-5148**

End of Test Date: **27 Feb 2019**

E-Mail: **whitbk@xplornet.com**

Pick Up Date:

Address: **560 1st Line, R.R.#3 , HAGERSVILLE , ON , N0A 1H0**

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 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.

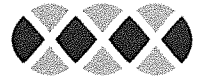
**REA - Rib Eye Area ABC (square inches)** - Predictor of the differences in progeny ribeye area (muscling), adjusted to a common age.

**%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

## 201902 FIRST LINE ANGUS



Genetic Evaluations (08 Mar 2019)

Tag	Pen	Tattoo											CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIOS					
<b>001F</b>			<b>FLA 1F</b>																									
Contact	BRIAN A. WHITWELL - FIRST LINE ANGUS										%ab	91	95	75	16	76	79	69	5	73	91	34						
HC/Breed	ANGUS										ABC Acc	5 <sup>26</sup>	-5.6 <sup>55</sup>	47 <sup>44</sup>	16 <sup>19</sup>	39 <sup>48</sup>	86 <sup>46</sup>	.56 <sup>47</sup>	-.44 <sup>41</sup>	.32 <sup>41</sup>	1.40 <sup>61</sup>	3036						
Birthdate	04Jan2018										%wb	71	85	72	8	50	65	2	23	4	92	30						
Sire	S A V RESOURCE 1441																											
Sire	MAR RESPOND 1734																											
Dam	FIRST LINE JUNEBUG 45X																											
DamSire	FIRST LINE NEW YEAR																											
											CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
											U	81	705	87	1082	1486	3.42	3.55	53.5	6.6	5	13.8	12.6	2.67	2.33	PD-A	42.5	40.5

Tag	Pen	Tattoo											CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIOS					
<b>005F</b>			<b>HFA 5F</b>																									
Contact	BRIAN A. WHITWELL - FIRST LINE ANGUS										%ab	86	86	97	50	99	99				70							
HC/Breed	ANGUS										ABC Acc	5 <sup>19</sup>	-4.0 <sup>50</sup>	63 <sup>38</sup>	23 <sup>12</sup>	74 <sup>42</sup>	137 <sup>40</sup>				.81 <sup>59</sup>	N/R						
Birthdate	26Feb2018										%wb	60	61	97	44	99	99				63							
Sire	REIDHOLM HARVEY 104B																											
Dam	FIRST LINE ARIELLE MARIE 1A																											
DamSire	CONNELLY FINAL PRODUCT																											
											CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
											U	87	891	110	851	1454	4.83	3.97	52.0	6.5							38.5	38.5

Tag	Pen	Tattoo											CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIOS					
<b>010F</b>			<b>FLA 10F</b>																									
Contact	BRIAN A. WHITWELL - FIRST LINE ANGUS										%ab	95	95	24	25	13	16	97	14	87	83	11						
HC/Breed	ANGUS										ABC Acc	7 <sup>17</sup>	-5.7 <sup>45</sup>	34 <sup>35</sup>	18 <sup>7</sup>	19 <sup>40</sup>	53 <sup>38</sup>	1.61 <sup>43</sup>	-.27 <sup>37</sup>	.50 <sup>37</sup>	1.11 <sup>58</sup>	2192						
Birthdate	24Jan2018										%wb	86	86	20	15	2	5	87	60	48	83	7						
Sire	CONNELLY CONSENSUS 7229																											
Sire	RIVERBEND NONE BETTER Y095																											
Dam	BROOKMORE KARAMA 12D																											
DamSire																												
											CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
											U	72	727	90	943	1298	3.06	3.25	50.0	5.1	10	14.5	13.7	3.40	3.11	A	40.0	38.8

Tag	Pen	Tattoo											CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIOS					
<b>013F</b>			<b>FLA 13F</b>																									
Contact	BRIAN A. WHITWELL - FIRST LINE ANGUS										%ab	95	95	28	11	63	46	71	23	80	22	41						
HC/Breed	ANGUS										ABC Acc	6 <sup>22</sup>	-5.8 <sup>52</sup>	35 <sup>38</sup>	14 <sup>10</sup>	35 <sup>41</sup>	70 <sup>40</sup>	.63 <sup>44</sup>	-.12 <sup>38</sup>	.44 <sup>38</sup>	-.25 <sup>59</sup>	3183						
Birthdate	01Feb2018										%wb	84	87	23	5	34	28	3	86	23	5	36						
Sire	POSS ELEMENT 215																											
Sire	4M ELEMENT 405																											
Dam	FLA 18D																											
DamSire	PA FORTITUDE 2500																											
											CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
											U	70	695	86	939	1345	3.42	3.44	49.5	4.9	5	15.3	14.6	2.68	2.50	PD-A	35.0	34.1

Tag	Pen	Tattoo											CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIOS					
<b>017F</b>			<b>FLA 17F</b>																									
Contact	BRIAN A. WHITWELL - FIRST LINE ANGUS										%ab	61	63	84	77	49	72	97	3	94	53	17						
HC/Breed	ANGUS										ABC Acc	2 <sup>24</sup>	-2.1 <sup>50</sup>	51 <sup>41</sup>	28 <sup>12</sup>	32 <sup>44</sup>	82 <sup>43</sup>	1.74 <sup>45</sup>	-.54 <sup>40</sup>	.59 <sup>40</sup>	.51 <sup>60</sup>	2478						
Birthdate	18Feb2018										%wb	18	24	82	78	22	57	91	14	76	38	13						
Sire	CONNELLY CONSENSUS 7229																											
Sire	EXAR SIGNIFICANT 1769B																											
Dam	FIRST LINE JUNIPER 26C																											
DamSire																												
											CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
											U	89	854	106	880	1286	3.53	3.44	50.5	5.6	9	12.5	12.3	3.56	3.47	A-AA	37.0	36.7

# Bull Evaluation EOT Report

## 201902 FIRST LINE ANGUS



Genetic Evaluations (08 Mar 2019)

Tag **018F** Pen      Tattoo **FLA 18F**  
 Contact **BRIAN A. WHITWELL - FIRST LINE ANGUS**  
 HC/Breed **ANGUS**      905-768-5148  
 Birthdate **18Feb2018**      Colour **BLACK**  
 SireSire **OCC EMBLAZON 854E**  
 Sire **B C MATRIX 4132**  
 Dam **UPPER GLEN GRAND JUNE 4T**  
 DamSire **B C MATRIX 4132**

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIOS\$
%ab	47	47	95	11	97	98	97	32	72	16	77
ABC Acc	1 32	-1.0 55	58 46	14 33	55 51	113 49	1.62 52	.02 47	.30 47	-.46 64	4116
%wb	9	12	95	5	93	96	88	95	3	2	77

	CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	98	906	112		937	1384	3.82	3.70	51.0	5.9	9	15.3	15.0	2.18	2.13	PD-A	34.0	33.7

Tag **019F** Pen      Tattoo **FLA 19F**  
 Contact **BRIAN A. WHITWELL - FIRST LINE ANGUS**  
 HC/Breed **ANGUS**      905-768-5148  
 Birthdate **21Feb2018**      Colour **BLACK**  
 SireSire **S A V RESOURCE 1441**  
 Sire **MUSGRAVE AVIATOR**  
 Dam **AJA ANNIE 603D**  
 DamSire

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIOS\$
%ab	74	72	78	57	65	75	91	15	99	51	46
ABC Acc	3 18	-2.7 46	48 35	24 10	36 41	84 38	1.35 43	-.25 37	.78 37	.47 58	3315
%wb	34	35	75	53	37	61	67	66	96	36	42

	CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	83	808	100		803	1192	3.28	3.21	49.0	4.9	7	14.0	13.8	4.82	4.74	AA-AAA	37.0	36.8

Tag **021F** Pen      Tattoo **FLA 21F**  
 Contact **BRIAN A. WHITWELL - FIRST LINE ANGUS**  
 HC/Breed **ANGUS**      905-768-5148  
 Birthdate **22Feb2018**      Colour **BLACK**  
 SireSire **PA FORTITUDE 2500**  
 Sire **LAZY E FORTITUDE 876C**  
 Dam **ATLASTA ELSIEMERE 109D**  
 DamSire

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIOS\$
%ab	88	86	92	60	69	87	81	20	81	58	54
ABC Acc	5 15	-4.1 45	56 34	25 7	37 40	92 37	1.04 43	-.17 37	.44 37	.60 58	3533
%wb	65	63	91	57	41	78	29	80	25	46	51

	CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	82	885	110		871	1264	3.43	3.42	52.0	6.4	6	14.4	14.3	2.88	2.84	PD-A	37.5	37.3



**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
ANGUS	8	100	83	809	913	981	1100	1171	1339	3.60	3.50	50.9	5.7	7	14.3	13.8	3.17	3.02	37.7
Group Averages	8	100	83	809	913	981	1100	1171	1339	3.60	3.50	50.9	5.7	7	14.3	13.8	3.17	3.02	37.7

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