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Bull Evaluation Centre Report

202302 First Line Angus 2023

(End of Test)

Test Date: **05 Mar 2023** Days on Test: **127**

Centre Manager: **BRIAN WHITWELL**

Start of Test Date: **29 Oct 2022**

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

End of Test Date: **05 Mar 2023**

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 (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 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

202302 First Line Angus 2023



Genetic Evaluations (15 Mar 2023)

Tag 0001 Pen Tattoo **FLA 1K**
 Contact **BRIAN A. WHITWELL - FIRST LINE ANGUS**
 HC/Breed **ANGUS** **905-768-5148**
 Birthdate **01Jan2022** Colour **BLACK**
 SireSire **Baldrige Titan A139**
 Sire **HART HERCULES 7017**
 Dam **FIRST LINE COUNTESS 25D**
 DamSire **VISION UNANIMOUS 1418**

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO\$
%ab	89	88	94	63	99	98	99	7	96	78	86
ABC Acc	5 ²¹	-4.6 ⁵²	60 ⁴⁰	26 ¹⁴	61 ⁴³	120 ⁴²	2.00 ⁴⁷	-0.46 ⁴¹	.59 ⁴¹	.98 ⁶¹	4294
%wb	67	68	94	61	97	97	98	19	89	77	84

	CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	86	846	114	1155	1678	4.15	3.92	54.5	7.0	15	13.9	12.5	4.22	3.60	AA	39.0	36.7	

Tag 0002 Pen Tattoo **FLA 2K**
 Contact **BRIAN A. WHITWELL - FIRST LINE ANGUS**
 HC/Breed **ANGUS** **905-768-5148**
 Birthdate **01Jan2022** Colour **BLACK**
 SireSire **SYDGEN ENHANCE**
 Sire **MOGCK ENTICE**
 Dam **FIRST LINE GERTIE 17**
 DamSire **A & B FERGUSON 6186**

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO\$
%ab	99	98	88	88	89	92	85	34	97	33	90
ABC Acc	9 ²⁵	-7.9 ⁵³	55 ⁴³	32 ¹⁵	46 ⁴⁶	101 ⁴⁵	1.19 ⁴⁵	-0.08 ³⁹	.62 ³⁹	.22 ⁵⁹	4511
%wb	97	96	87	90	73	83	61	89	93	12	88

	CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	60	773	104	981	1408	3.48	3.29	50.5	5.0	11	15.2	13.6	3.66	3.12	A-AA	34.5	32.2	

Tag 0003 Pen Tattoo **FLA 3K**
 Contact **BRIAN A. WHITWELL - FIRST LINE ANGUS**
 HC/Breed **ANGUS** **905-768-5148**
 Birthdate **01Jan2022** Colour **BLACK**
 SireSire **BALDRIDGE WAYLON W34**
 Sire **A & B FERGUSON 6186**
 Dam **TANNAS ALETA 38E**
 DamSire **S A V TEN SPEED 3022**

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO\$
%ab	98	99	51	51	52	52	86	22	99	66	69
ABC Acc	9 ¹⁹	-8.0 ⁵⁰	43 ³⁹	24 ¹⁵	33 ⁴⁴	75 ⁴²	1.22 ⁴⁸	-0.24 ⁴³	1.13 ⁴³	.76 ⁶²	3778
%wb	96	96	43	46	23	31	64	69	99	57	69

	CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	66	696	94	956	1336	3.01	3.12	50.5	5.0	11	14.0	12.6	5.67	4.84	AAA	37.5	35.2	

Tag 0004 Pen Tattoo **HLKF 4K**
 Contact **BRIAN A. WHITWELL - FIRST LINE ANGUS**
 HC/Breed **P SIMMENTAL** **905-768-5148**
 Birthdate **01Jan2022** Colour
 SireSire **WS BEEF MAKER R13**
 Sire **WS BEEF KING W107**
 Dam **JARVIS GREY**
 DamSire **JF UPGRADE 2115Z**

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO\$
%ab	71	65	93	77	34	75	7	72	54	50	59
ABC Acc	3 ²³	-2.4 ⁴⁹	59 ⁴⁰	29 ¹⁸	28 ⁴⁴	87 ⁴²	-0.56 ⁴⁵	.33 ⁴⁰	.14 ⁴⁰	.52 ⁵⁹	3540
%wb	93	91	81	45	32	61	7	77	95	16	54

	CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	71	761	102	973	1351	2.95	3.16	50.5	5.0	5	15.5	13.9	2.99	2.55	A	36.5	34.2	

Tag 0007 Pen Tattoo **FLA 7K**
 Contact **BRIAN A. WHITWELL - FIRST LINE ANGUS**
 HC/Breed **ANGUS** **905-768-5148**
 Birthdate **03Jan2022** Colour **BLACK**
 SireSire **Basin Payweight 1682**
 Sire **DEER VALLEY GROWTH FUND**
 Dam **CLC GEORGINA 312G**
 DamSire **COLEMAN RENOWN 763**

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO\$
%ab	46	73	95	40	97	98	87	31	75	86	87
ABC Acc	1 ²⁵	-3.0 ⁵¹	61 ⁴¹	23 ¹²	55 ⁴⁴	115 ⁴³	1.22 ⁴⁷	-0.12 ⁴¹	.41 ⁴¹	1.16 ⁶¹	4336
%wb	11	40	95	33	92	95	64	86	30	87	84

	CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
E	81	784	105	1004	1473	3.64	3.46	52.5	6.0	11	14.7	13.2	3.19	2.73	A	39.0	36.8	

Bull Evaluation EOT Report

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Genetic Evaluations (15 Mar 2023)

Tag	0009	Pen		Tattoo	FLA 9K
Contact	BRIAN A. WHITWELL - FIRST LINE ANGUS				
HC/Breed	ANGUS				905-768-5148
Birthdate	15Jan2022			Colour	BLACK
SireSire	GAR-EGL PROTEGE				
Sire	PA FORTITUDE 2500				
Dam	FIRST LINE REBECCA JEAN 12H				
DamSire	EXAR SIGNIFICANT 1769B				

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO\$
%ab	81	74	51	14	52	51	65	1	76	32	8
ABC Acc	4 26	-3.1 53	42 43	16 15	33 46	75 45	.70 48	-.74 43	.42 43	.19 62	2013
%wb	49	41	42	7	23	30	13	1	33	11	6

	CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	84	697	94		903	1321	3.32	3.19	51.0	5.4	8	11.8	10.9	2.81	2.48	PD-A	34.0	32.2

Tag	0014	Pen		Tattoo	FLA 14K
Contact	BRIAN A. WHITWELL - FIRST LINE ANGUS				
HC/Breed	ANGUS				905-768-5148
Birthdate	22Jan2022			Colour	BLACK
SireSire	N BAR EMULATION EXT				
Sire	LEACHMAN SAUGAHATCHEE 3000C				
Dam	FIRST LINE ARIANNA 6E				
DamSire	JMB TRACTION 292				

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO\$
%ab	61	53	7	28	85	39	76	11	70	23	20
ABC Acc	3 35	-1.6 58	26 49	20 30	43 50	69 50	.97 49	-.40 44	.37 44	-.06 62	2558
%wb	22	19	3	19	65	19	37	33	17	4	20

	CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	91	661	89		835	1254	3.35	3.08	50.5	5.2	8	12.4	11.6	2.89	2.59	PD-A	34.0	32.5

Tag	0020	Pen		Tattoo	RNR 2K
Contact	BRIAN A. WHITWELL - FIRST LINE ANGUS				
HC/Breed	ANGUS				905-768-5148
Birthdate	20Jan2022			Colour	BLACK
SireSire	HOOVER NO DOUBT				
Sire	HOOVER KNOW HOW				
Dam	BROCKHILL PERSEPHONE 8H				
DamSire	DEER VALLEY GROWTH FUND				

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO\$
%ab	73	62	61		82	75	88	35	88	80	
ABC Acc	4 19	-2.2 49	45 PE		42 40	87 PE	1.24 44	-.05 38	.51 38	1.02 59	N/R
%wb	36	27	53		58	57	67	91	66	79	

	CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	82	N/A			1123	1519	3.17	3.71	52.0	6.0	11	15.2	14.1	3.66	3.27	A-AA	37.5	35.9

Tag	0025	Pen		Tattoo	FLA 25K
Contact	BRIAN A. WHITWELL - FIRST LINE ANGUS				
HC/Breed	ANGUS				905-768-5148
Birthdate	12Feb2022			Colour	BLACK
SireSire	SYDGEN EXCEED 3223				
Sire	SYDGEN ENHANCE				
Dam	REMITALL F LADY JANE 239E				
DamSire	R B TOUR OF DUTY 177				

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO\$
%ab	71	59	45	45	97	87	83	10	73	96	56
ABC Acc	3 21	-2.0 50	41 38	23 10	55 43	96 41	1.14 45	-.41 39	.40 39	1.65 60	3488
%wb	35	24	36	38	92	76	55	30	25	97	55

	CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	93	739	99		929	1456	4.12	3.77	53.5	7.0	10	13.2	12.7	2.85	2.69	PD-A	39.0	38.2

Tag	0058	Pen		Tattoo	FLA 58J
Contact	BRIAN A. WHITWELL - FIRST LINE ANGUS				
HC/Breed	ANGUS				905-768-5148
Birthdate	28Nov2021			Colour	BLACK
SireSire	PA FORTITUDE 2500				
Sire	FIRST LINE FORTITUDE 17D				
Dam	FIRST LINE ELBA 18E				
DamSire	R B TOUR OF DUTY 177				

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO\$
%ab	80	75	76	70	58	70	50	16	66	24	
ABC Acc	4 25	-3.2 54	50 PE	28 PE	34 46	84 PE	.19 49	-.32 44	.34 44	-.04 63	N/R
%wb	48	43	72	69	29	51	1	50	9	5	

	CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	91	845			1203	1604	3.16	3.47	54.0	6.4	7	15.5	13.2	2.64	2.09	PD-A	34.5	31.0



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	9	89	82	755	1010	1091	1203	1293	1450	3.49	3.45	52.1	5.9	10	14.0	12.7	3.51	3.04	36.6
SIMMENTAL	1	100	71	761	973	1076	1163	1241	1351	2.95	3.16	50.5	5.0	5	15.5	13.9	2.99	2.55	36.5
Group Averages	10	90	81	756	1006	1090	1199	1288	1440	3.44	3.42	52.0	5.8	10	14.1	12.8	3.46	3.00	36.5

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