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## Heifer Development Centre Report

**201071 CHAMPLAIN ANGUS B**

**( End of Test )**

Test Date: **16 Sep 2009** Days on Test: **155**

Centre Manager: **WILSON RAE**

Start of Test Date: **14 Apr 2009**

Phone #: **613-646-2089**

End of Test Date: **16 Sep 2009**

E Mail: **wilsonrae@xplornet.com**

Pick Up Date:

Address: **R.R.#2,1154 GRANTS SETTLEMENT RD. , FORESTERS FALLS , ON , K0J 1V0**

Ration Statement:

**Note:**

# 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).
- **Prime Plus Economic Index - Prime Plus** is the bull's predicted dollar difference (PDD) for his ability to sire market calves that produce a 700 pound carcass with AAA marbling, and productive heifer replacements. Prime Plus is based on using the bull for 2 years on 30 average cows, with 85% of heifers kept as replacements. *Prime Plus is only for Bulls not Heifers.*
- **Beef Builder Economic Index - Beef Builder** is the bull's predicted dollar difference (PDD) for his ability to sire market calves that produce up to an 800 pound carcass and sire productive heifer replacements. Beef Builder is based on using the bull for 2 years on 30 average cows, with 40% of heifers kept as replacements. *Beef Builder is only for Bulls not Heifers.*
- **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	Prime Plus	Beef Builder
Base	0	0	+30	+15	+20	+50	0	0	0	0	+2000	+2000

## ***Report Definitions and Legend***

### **Herd Measurements (BIO encourages 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. Only Bulls have SC evaluations.

# Heifer Development EOT Report

## 201071 CHAMPLAIN ANGUS B



Genetic Evaluations (04 Nov 2009)

**Tag 0031** Pen Tattoo **RAE 31U**  
 Contact **WILSON RAE - CHAMPLAIN ANGUS**  
 HC/Breed **P 1/2 SIMMENTAL / RED ANGUS** **613-646-2089**  
 Birthdate **03Oct2008** Colour **RED**  
 SireSire **BAR 5 P SA EXPERT 826M**  
 Sire **PHS POLLED SAMSON**  
 Dam **RAE 6N**  
 DamSire **RED BRYLOR LEAD-PINE 99L**

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF
%ab	48	48	91	88	42	74	61	31	61
ABC Acc	1 29	-7 57	49 47	28 21	25 46	74 47	.28 52	-.14 47	.11 47
%wb									

PPIndex	BBIndex
50	37
<b>2887</b>	<b>2541</b>

CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade
U	82	662	91	590	818	1.47	2.35	48.5	5.9	3	7.8	8.0	3.01	3.16	A

**Tag 0032** Pen Tattoo **RAE 32U**  
 Contact **WILSON RAE - CHAMPLAIN ANGUS**  
 HC/Breed **P 1/2 SIMMENTAL / RED ANGUS** **613-646-2089**  
 Birthdate **08Oct2008** Colour **RED**  
 SireSire **BAR 5 P SA EXPERT 826M**  
 Sire **PHS POLLED SAMSON**  
 Dam **RAE 19R**  
 DamSire **RED PIE DEEP CANYON 908**

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF
%ab	33	28	97	81	86	95	69	36	81
ABC Acc	-1 29	1.1 57	55 47	26 18	39 46	94 47	.57 54	-.09 49	.40 49
%wb									

PPIndex	BBIndex
81	59
<b>4374</b>	<b>3039</b>

CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade
U	94	694	95	590	814	1.45	2.37	48.5	6.0	4	7.9	8.1	4.39	4.67	AA

**Tag 0033** Pen Tattoo **RAE 33U**  
 Contact **WILSON RAE - CHAMPLAIN ANGUS**  
 HC/Breed **P 1/2 SIMMENTAL / RED ANGUS** **613-646-2089**  
 Birthdate **08Oct2008** Colour **RED**  
 SireSire **BAR 5 P SA EXPERT 826M**  
 Sire **PHS POLLED SAMSON**  
 Dam **RAE 12R**  
 DamSire **RED PIE DEEP CANYON 908**

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF
%ab	46	41	98	75	92	97	65	47	74
ABC Acc	1 29	-1 56	58 47	24 18	43 46	101 47	.45 54	.03 49	.32 48
%wb									

PPIndex	BBIndex
83	76
<b>4537</b>	<b>3434</b>

CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade
U	86	694	95	590	858	1.73	2.50	48.0	5.7	3	8.9	9.2	3.95	4.20	A-AA

**Tag 0034** Pen Tattoo **RAE 34U**  
 Contact **WILSON RAE - CHAMPLAIN ANGUS**  
 HC/Breed **P 1/2 SIMMENTAL / RED ANGUS** **613-646-2089**  
 Birthdate **09Oct2008** Colour **RED**  
 SireSire **BAR 5 P SA EXPERT 826M**  
 Sire **PHS POLLED SAMSON**  
 Dam **RAE 18R**  
 DamSire **RED GP CATALYST 025**

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF
%ab	33	29	99	90	81	96	76	55	68
ABC Acc	-1 30	1.0 58	60 48	29 18	37 47	97 48	.77 54	.11 49	.23 49
%wb									

PPIndex	BBIndex
73	74
<b>3938</b>	<b>3390</b>

CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade
U	90	730	100	619	880	1.68	2.57	47.0	5.2	5	8.8	9.1	3.02	3.22	A

**Tag 0035** Pen Tattoo **RAE 35U**  
 Contact **WILSON RAE - CHAMPLAIN ANGUS**  
 HC/Breed **P 1/2 SIMMENTAL / RED ANGUS** **613-646-2089**  
 Birthdate **11Oct2008** Colour **RED**  
 SireSire **BAR 5 P SA EXPERT 826M**  
 Sire **PHS POLLED SAMSON**  
 Dam **RAE 9N**  
 DamSire **RED BRYLOR LEAD-PINE 99L**

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF
%ab	16	12	97	94	67	91	66	61	58
ABC Acc	-3 29	3.1 57	56 47	31 21	32 46	88 47	.48 52	.17 47	.08 47
%wb									

PPIndex	BBIndex
53	56
<b>2995</b>	<b>2971</b>

CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade
U	98	754	104	650	900	1.61	2.65	50.0	6.8	4	9.5	9.9	2.37	2.54	PD-A

# Heifer Development EOT Report

## 201071 CHAMPLAIN ANGUS B



Genetic Evaluations (04 Nov 2009)

**Tag 0037** Pen Tattoo **RAE 37U**  
 Contact **WILSON RAE - CHAMPLAIN ANGUS**  
 HC/Breed **P 1/2 SIMMENTAL / RED ANGUS** **613-646-2089**  
 Birthdate **16Oct2008** Colour **RED**  
 SireSire **BAR 5 P SA EXPERT 826M**  
 Sire **PHS POLLED SAMSON**  
 Dam **14P**  
 DamSire **RED BUF CRK ROMEO L081**

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF
%ab	33	23	97	96	85	95	75	86	73
ABC Acc	-1 30	1.6 58	56 48	33 20	39 47	94 48	.75 54	.46 49	.31 49
%wb									

PPIndex	BBIndex
86	87
<b>4766</b>	<b>3840</b>

CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade
U	100	805	111	670	896	1.46	2.67	49.5	6.6	5	10.6	11.2	3.82	4.16	A-AA

**Tag 0038** Pen Tattoo **RAE 38U**  
 Contact **WILSON RAE - CHAMPLAIN ANGUS**  
 HC/Breed **P 1/2 SIMMENTAL / RED ANGUS** **613-646-2089**  
 Birthdate **28Oct2008** Colour **RED**  
 SireSire **BAR 5 P SA EXPERT 826M**  
 Sire **PHS POLLED SAMSON**  
 Dam **GBL 221R**  
 DamSire

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF
%ab	37	34	98	88	87	96	63	30	43
ABC Acc	0 24	.5 50	58 41	28 12	40 40	98 41	.35 48	-.16 43	-.04 43
%wb									

PPIndex	BBIndex
43	57
<b>2633</b>	<b>2986</b>

CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade
U	95	752	103	590	864	1.77	2.67	49.5	6.7	3	7.4	7.8	1.81	2.05	PD

**Tag 0039** Pen Tattoo **RAE 39U**  
 Contact **WILSON RAE - CHAMPLAIN ANGUS**  
 HC/Breed **P 1/2 SIMMENTAL / RED ANGUS** **613-646-2089**  
 Birthdate **30Oct2008** Colour **RED**  
 SireSire **BAR 5 P SA EXPERT 826M**  
 Sire **PHS POLLED SAMSON**  
 Dam **RAE 01R**  
 DamSire **RED PIE DEEP CANYON 908**

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF
%ab	57	50	96	88	95	97	65	65	75
ABC Acc	2 29	-.9 56	54 47	28 16	46 46	100 47	.44 54	.21 48	.33 48
%wb									

PPIndex	BBIndex
90	88
<b>5100</b>	<b>3852</b>

CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade
U	90	692	95	530	828	1.92	2.58	48.0	6.0	3	8.5	9.1	3.86	4.39	A-AA

**Tag 0040** Pen Tattoo **RAE 40U**  
 Contact **WILSON RAE - CHAMPLAIN ANGUS**  
 HC/Breed **P 1/2 SIMMENTAL / RED ANGUS** **613-646-2089**  
 Birthdate **07Nov2008** Colour **RED**  
 SireSire **BAR 5 P SA EXPERT 826M**  
 Sire **PHS POLLED SAMSON**  
 Dam **RAE 13N**  
 DamSire **BIEBER CHIEFTON 3080**

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF
%ab	33	29	99	96	86	98	65	51	53
ABC Acc	-1 29	1.0 57	64 47	33 20	39 45	104 46	.42 52	.07 47	.02 47
%wb									

PPIndex	BBIndex
59	73
<b>3259</b>	<b>3370</b>

CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade
U	97	837	115	540	808	1.73	2.58	48.0	6.1	4	8.7	9.4	1.97	2.30	PD-A

**Tag 0041** Pen Tattoo **RAE 41U**  
 Contact **WILSON RAE - CHAMPLAIN ANGUS**  
 HC/Breed **P 1/2 SIMMENTAL / RED ANGUS** **613-646-2089**  
 Birthdate **12Nov2008** Colour **RED**  
 SireSire **BAR 5 P SA EXPERT 826M**  
 Sire **PHS POLLED SAMSON**  
 Dam **RED JCC CHETA 24S**  
 DamSire **RED SSS SHIVER" N JOE 699P**

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF
%ab	26	21	98	86	88	96	63	59	70
ABC Acc	-1 24	1.8 50	57 41	27 12	40 40	97 41	.36 48	.15 43	.26 43
%wb									

PPIndex	BBIndex
78	70
<b>4164</b>	<b>3296</b>

CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade
U	100	736	101	530	815	1.84	2.65	48.5	6.4	3	9.3	10.2	3.64	4.31	A-AA



**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
CROSSBRED	10	100	93	736	590				848	1.67	2.56	48.6	6.1	4	8.7	9.2	3.18	3.50	
Group Averages	10	100	93	736	590				848	1.67	2.56	48.6	6.1	4	8.7	9.2	3.18	3.50	

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