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Bull Evaluation Centre Report

201628 Silversprings Simmentals #2 **(End of Test)** Test Date: **27 Mar 2016** Days on Test: **112**

Centre Manager: **JAMES MCKINLAY**
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Address: **609027 SIDEROAD 12,R.R. #1 , RAVENNA , ON , N0H 2E0**
Ration Statement:

Start of Test Date: **06 Dec 2015**
End of Test Date: **27 Mar 2016**
Pick Up Date:

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

201628 Silversprings Simmentals #2

Tag 0001 | Pen | Tattoo JJMC 19C

Contact **JAMES MCKINLAY - SILVERSPRINGS SIMMENTALS**
HC/Breed **P 3/4 SIMMENTAL 7/32 AN 1/32 XX 0** **519-599-6236**
Birthdate **05Apr2015** Colour **red**
SireSire **HOOKS SHEAR FORCE 38K**
Sire **NLDF YANKEE 319Y**
Dam **JJMC 19Z**
DamSire **LDS 2X**

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO$
%ab	90	90	75	80	93	89	63	62	64	31	
ABC Acc	**5** 34	**-4.5** 57	**45** 46	**28** 21	**47** 49	**92** 48	**.24** PE	**.33** PE	**.11** PE	**.17** PE	**N/R**
%wb											

CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	80	615	95	700	1155	4.04	3.24	48.5	4.9	7	11.8	12.0	3.37	3.45	A	32.5	32.8

Tag 0002 | Pen | Tattoo JJMC 20C

Contact **JAMES MCKINLAY - SILVERSPRINGS SIMMENTALS**
HC/Breed **P SIMMENTAL** **519-599-6236**
Birthdate **21Mar2015** Colour **Red**
SireSire **FVFR RED TITAN 2X**
Sire **JJMC 7A**
Dam **RTC 18Z**
DamSire **RTC/JETS WINCHESTER 14W**

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO$
%ab	63	61	98	84	82	97	76	64	57	90	84
ABC Acc	**2** 24	**-1.8** 49	**63** 39	**29** 11	**41** 44	**104** 42	**.75** 48	**.36** 42	**.04** 42	**1.50** 61	**4263**
%wb	92	92	93	59	78	90	99	50	87	76	82

CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	85	687	106	862	1360	4.45	3.66	51.0	5.9	8	15.1	14.9	2.86	2.81	PD-A	38.0	37.7

Tag 0003 | Pen | Tattoo JJMC 31C

Contact **JAMES MCKINLAY - SILVERSPRINGS SIMMENTALS**
HC/Breed **P SIMMENTAL** **519-599-6236**
Birthdate **30Mar2015** Colour **Red**
SireSire **FVFR RED TITAN 2X**
Sire **JJMC 7A**
Dam **RTC 31Z**
DamSire **DESTINY BUCKEYE**

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO$
%ab	62	58	92	62	51	80	58	45	37	85	48
ABC Acc	**2** 24	**-1.6** 49	**53** 38	**24** 10	**32** 43	**85** 41	**.10** 47	**.16** 42	**-.06** 42	**1.29** 61	**3208**
%wb	92	91	70	29	45	60	86	20	56	64	48

CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	83	605	94	740	1220	4.17	3.36	49.5	5.3	5	13.7	13.8	2.12	2.13	PD-A	37.0	37.1

Tag 0004 | Pen | Tattoo JJMC 49C

Contact **JAMES MCKINLAY - SILVERSPRINGS SIMMENTALS**
HC/Breed **P SIMMENTAL** **519-599-6236**
Birthdate **25Mar2015** Colour **Red**
SireSire **MAPLEROSE SUPERMAN**
Sire **MARYWOOD LEX LUTHOR**
Dam **BRF 52W**
DamSire **ROBSON ACRES TONKA**

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO$
%ab	43	54	92	35	55	82	35	28	33	96	30
ABC Acc	**1** 33	**-1.3** 52	**53** 44	**19** 18	**33** 47	**86** 46	**-.26** 50	**-.10** 45	**-.08** 45	**1.88** 62	**2709**
%wb	80	89	71	9	50	63	44	3	49	91	31

CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	90	642	99	772	1200	4.00	3.26	51.0	6.0	4	12.5	12.4	2.23	2.21	PD-A	40.0	39.9

Tag 0005 | Pen | Tattoo JJMC 15C

Contact **JAMES MCKINLAY - SILVERSPRINGS SIMMENTALS**
HC/Breed **P 1/2 SIMMENTAL 1/2 AR 0** **519-599-6236**
Birthdate **28Mar2015** Colour **Red**
SireSire **RED BRYLOR BIG ROCK 85T**
Sire **RED BBP ROCKY 7Z**
Dam **FVFR 15X**
DamSire **REMINGTON RED LABEL HR**

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO$
%ab	88	88	92	59	62	84	65	89	65	84	90
ABC Acc	**5** 26	**-4.2** 51	**53** 40	**23** 13	**34** 46	**88** 43	**.31** 49	**.66** 44	**.13** 44	**1.28** 62	**4549**
%wb											

CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	85	707	109	892	1385	4.52	3.79	51.5	6.2	5	17.3	17.3	2.48	2.48	PD-A	38.0	38.0

Bull Evaluation EOT Report

201628 Silversprings Simmentals #2

Tag	0006	Pen		Tattoo	JJMC 29C
Contact	JAMES MCKINLAY - SILVERSPRINGS SIMMENTALS				
HC/Breed	P 3/4 RED ANGUS 1/4 SM 0				519-599-6236
Birthdate	26Mar2015	Colour	Red		
SireSire	RED BRYLOR BIG ROCK 85T				
Sire	RED BBP ROCKY 7Z				
Dam	JJMC 29W				
DamSire	RED STALBURN RUSTY 4R				

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO$
%ab	87	88	36	65	69	55	74	41	80	80	64
ABC Acc	**5** 30	**-4.1** 53	**36** 42	**25** 18	**36** 47	**72** 45	**.68** 50	**.10** 44	**.41** 44	**1.15** 62	**3608**
%wb											

CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	90	628	97	825	1305	4.35	3.56	51.0	6.0	6	14.5	14.4	3.56	3.54	A-AA	38.0	37.9

Tag	0007	Pen		Tattoo	JJMC 41C
Contact	JAMES MCKINLAY - SILVERSPRINGS SIMMENTALS				
HC/Breed	P 3/4 SIMMENTAL 7/32 AN 1/32 XX 0				519-599-6236
Birthdate	27Mar2015	Colour	red		
SireSire	HOOKS SHEAR FORCE 38K				
Sire	NLDF YANKEE 319Y				
Dam	JJMC 41Y				
DamSire	FVFR BLK DYNAMITE 37U				

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO$
%ab	96	96	92	77	85	92	64	68	69	92	91
ABC Acc	**7** 30	**-5.9** 52	**53** 44	**27** 19	**42** 47	**95** 46	**.27** 50	**.40** 45	**.20** 45	**1.57** 62	**4634**
%wb											

CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	80	664	103	832	1305	4.30	3.57	52.0	6.5	5	15.1	15.1	3.09	3.08	A	40.0	40.0

Tag	0008	Pen		Tattoo	JJMC 63C
Contact	JAMES MCKINLAY - SILVERSPRINGS SIMMENTALS				
HC/Breed	P 1/2 RED ANGUS 15/32 SM 1/32 XX 0				519-599-6236
Birthdate	12Apr2015	Colour	Red		
SireSire	RED BRYLOR BIG ROCK 85T				
Sire	RED BBP ROCKY 7Z				
Dam	JJMC 62T				
DamSire	SILVER SPRINGS RUDY 53R				

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO$
%ab	80	85	58	52	45	53	63	37	69	30	44
ABC Acc	**4** 28	**-3.8** 54	**41** 43	**22** 17	**30** 47	**71** 45	**.23** 49	**.06** 43	**.20** 43	**.17** 62	**3092**
%wb											

CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	87	657	102	772	1245	4.32	3.56	53.0	7.2	5	13.2	13.6	2.58	2.69	PD-A	34.0	34.5

Tag	0009	Pen		Tattoo	RAD 14C
Contact	JAMES MCKINLAY - SILVERSPRINGS SIMMENTALS				
HC/Breed	P RED ANGUS				519-599-6236
Birthdate	01Apr2015	Colour	Red		
SireSire	RED STALBURN RUSTY 4R				
Sire	RED RAVENNA 12U				
Dam	LDS 19U				
DamSire	RED STALBURN KINDLE 10K				

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO$
%ab	99	99	50	92	98	91	77	24	92	74	87
ABC Acc	**9** 39	**-7.8** 61	**39** 52	**32** 25	**54** 53	**93** 53	**.80** 56	**-.15** 52	**.57** 52	**.99** 65	**4438**
%wb	97	97	48	93	95	84	18	73	69	70	88

CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	80	596	92	747	1265	4.79	3.50	50.0	5.5	4	13.6	13.7	3.21	3.25	A	37.0	37.1

Tag	0010	Pen		Tattoo	RAD 26C
Contact	JAMES MCKINLAY - SILVERSPRINGS SIMMENTALS				
HC/Breed	P RED ANGUS				519-599-6236
Birthdate	20Mar2015	Colour	Red		
SireSire	RED LCC MAJOR LEAGUE A502M				
Sire	RED STALBURN RUSTY 4R				
Dam	RED BIRCHLAWN PAULA 3P				
DamSire	RED BIRCHLAWN WILLIAM TELL 1K				

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO$
%ab	85	82	78	97	92	90	89	30	78	17	72
ABC Acc	**4** 39	**-3.4** 61	**47** 52	**35** 35	**46** 55	**93** 54	**1.19** 58	**-.06** 55	**.38** 55	**-.27** 67	**3855**
%wb	55	51	78	97	81	83	57	87	16	4	70

CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	87	669	103	882	1335	4.13	3.58	53.0	6.9	7	14.6	14.4	2.48	2.43	PD-A	34.0	33.7

Bull Evaluation EOT Report

201628 Silversprings Simmentals #2

Tag **0011**	Pen	Tattoo **RAD 35C**
Contact	**JAMES MCKINLAY - SILVERSPRINGS SIMMENTALS**	
HC/Breed	**P RED ANGUS**	**519-599-6236**
Birthdate	**20Mar2015**	Colour **Red**
SireSire	**RED STALBURN RUSTY 4R**	
Sire	**RED RAVENNA 12U**	
Dam	**RED BIRCHLAWN TAMMY 5T**	
DamSire	**RED GLACIER MARIAS 548E**	

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO$	
%ab	92	89	65	95	96	90	75	26	78	55	75	
ABC Acc	**6** 36	**-4.3** 58	**43** 49	**34** 26	**50** 53	**92** 51	**.73** 56	**-.11** 52	**.38** 52	**.65** 65	**3948**	
%wb	75	69	64	95	90	83	13	80	16	42	73	

CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	85	673	104	872	1375	4.54	3.69	52.0	6.4	5	14.0	13.8	2.58	2.52	PD-A	35.0	34.7

Tag **0012**	Pen	Tattoo **RAD 46C**
Contact	**JAMES MCKINLAY - SILVERSPRINGS SIMMENTALS**	
HC/Breed	**P RED ANGUS**	**519-599-6236**
Birthdate	**26Apr2015**	Colour **red**
SireSire	**RED STALBURN RUSTY 4R**	
Sire	**RED RAVENNA 12U**	
Dam	**LDS 16U**	
DamSire	**RED LJC MISSION STATEMENT P27**	

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO$	
%ab	97	97	83	92	99	98	83	15	94	69	89	
ABC Acc	**7** 37	**-6.5** 60	**48** 50	**32** 25	**61** 53	**109** 52	**.99** 57	**-.30** 52	**.60** 52	**.89** 65	**4528**	
%wb	91	92	82	93	98	96	38	48	77	63	90	

CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	83	667	103	757	1295	4.80	3.85	50.0	5.9	6	12.1	12.8	4.13	4.49	AA	35.0	36.1

Tag **0014**	Pen	Tattoo **RAD 54C**
Contact	**JAMES MCKINLAY - SILVERSPRINGS SIMMENTALS**	
HC/Breed	**P RED ANGUS**	**519-599-6236**
Birthdate	**29Mar2015**	Colour **Red**
SireSire	**RED STALBURN RUSTY 4R**	
Sire	**RED RAVENNA 12U**	
Dam	**RAD 56U**	
DamSire	**RED STALBURN RUSTY 4R**	

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO$	
%ab	98	98	39	93	33	35	85	2	97	75	21	
ABC Acc	**8** 38	**-6.9** 60	**37** 49	**33** 22	**26** 50	**63** 50	**1.03** 52	**-.62** 48	**.66** 48	**1.03** 64	**2441**	
%wb	96	94	36	94	10	18	43	8	87	72	17	

CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	82	634	98	745	1125	3.49	3.09	52.0	6.5	6	11.6	11.6	3.80	3.81	A-AA	38.0	38.0

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
RED ANGUS	6	100	85	645	805	903	1037	1165	1283	4.35	3.54	51.3	6.2	6	13.4	13.5	3.29	3.34	36.2
SIMMENTAL	5	100	84	643	781	880	1024	1121	1248	4.19	3.42	50.4	5.7	6	13.6	13.6	2.73	2.74	37.5
CROSSBRED	2	100	86	682	832	930	1080	1203	1315	4.42	3.67	52.3	6.7	5	15.2	15.4	2.53	2.59	36.0
Group Averages	13	100	84	650	800	898	1038	1154	1275	4.30	3.52	51.1	6.1	6	13.8	13.8	2.96	2.99	36.7