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Bull Evaluation Centre Report

202017 SILVERSPRINGS SIMMENTALS   (End of Test)   Test Date: **19 Mar 2020** Days on Test: **118**

Centre Manager:	**JAMES MCKINLAY**	Start of Test Date: **22 Nov 2019**
Phone #:	**519-599-6236**	End of Test Date: **19 Mar 2020**
EMail:	**jmckinlay@bmts.com**	Pick Up Date:
Address:	**609027 SIDEROAD 12,R.R. #1 , RAVENNA , ON , N0H 2E0**	

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.

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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.

202017 SILVERSPRINGS SIMMENTALS

Genetic Evaluations (02 Apr 2020)

AN03 — RAD 3G

Tag AN03	Pen	Tattoo	RAD 3G
Contact	JAMES MCKINLAY - SILVERSPRINGS SIMMENTALS		
HC/Breed	P RED ANGUS		519-599-6236
Birthdate	30Apr2019	Colour	
SireSire	RED SILVEIRAS MISSION NEXUS		
Sire	RED PATCHELLS TUSCON		
Dam	LDS 10Y		
DamSire	RED LJC MISSION STATEMENT P27		

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO$
%ab	92	92	61	86	8	24	75	20	87	76	
ABC Acc	6 32	-5.1 57	43 44	31 19	15 48	59 46	.89 PE	-.22 PE	.50 PE	.95 PE	N/R
%wb	76	78	57	87	1	9	18	73	54	73	

CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	84	546	100	560	1010	3.75	3.12										

AN10 — RAD 10G

Tag AN10	Pen	Tattoo	RAD 10G
Contact	JAMES MCKINLAY - SILVERSPRINGS SIMMENTALS		
HC/Breed	P RED ANGUS		519-599-6236
Birthdate	27Apr2019	Colour	
SireSire	RED LAZY MC CC DETOUR 2W		
Sire	RED PATCHELLS CRACKER JACK		
Dam	RAD 50C		
DamSire	RED STALBURN RUSTY 4R		

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO$
%ab	92	91	68	80	41	56					
ABC Acc	6 29	-5.0 54	45 42	29 17	29 46	75 44					N/R
%wb	77	77	64	81	17	39					

CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	83	593	109	605	1065	4.15	3.26										

AN18 — RAD 18G

Tag AN18	Pen	Tattoo	RAD 18G
Contact	JAMES MCKINLAY - SILVERSPRINGS SIMMENTALS		
HC/Breed	P RED ANGUS		519-599-6236
Birthdate	08Mar2019	Colour	
SireSire	RED LSF MEW GAME CHANGER 1613Y		
Sire	RED BENCHMARK TRANSITION 10`14		
Dam	RED PATCHELL'S ALI		
DamSire	RED SILVEIRAS MISSION NEXUS		

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO$
%ab	87	83	33	49	62	49				55	
ABC Acc	5 26	-3.8 52	36 43	23 17	35 45	71 44				.58 PE	N/R
%wb	61	56	28	43	36	31				45	

CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	83	512	94	600	1160	4.72	3.08										

AN20 — RAD 20G

Tag AN20	Pen	Tattoo	RAD 20G
Contact	JAMES MCKINLAY - SILVERSPRINGS SIMMENTALS		
HC/Breed	P RED ANGUS		519-599-6236
Birthdate	07Mar2019	Colour	
SireSire	RED LSF MEW GAME CHANGER 1613Y		
Sire	RED BENCHMARK TRANSITION 10`14		
Dam	Red Patchells Cutie Patootie		
DamSire	RED TER-RON FULLY LOADED 540R		

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO$
%ab	78	73	5	30	75	31					
ABC Acc	4 26	-2.9 52	24 43	20 15	39 44	63 44					N/R
%wb	42	39	3	20	52	15					

CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	80	429	76	495	1050	4.81	2.78										

AN22 — RAD 22G

Tag AN22	Pen	Tattoo	RAD 22G
Contact	JAMES MCKINLAY - SILVERSPRINGS SIMMENTALS		
HC/Breed	P RED ANGUS		519-599-6236
Birthdate	08Apr2019	Colour	
SireSire	RED LAZY MC CC DETOUR 2W		
Sire	RED PATCHELLS CRACKER JACK		
Dam	RED BENCHMARK LAKIMA 22 14		
DamSire	RED LSF RAB COMMITMENT 2792Z		

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO$
%ab	91	89	28	40	41	34					
ABC Acc	6 22	-4.6 49	35 38	22 16	29 45	64 42					N/R
%wb	74	70	23	32	17	17					

CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	80	496	91	555	1060	4.34	3.06										

202017 SILVERSPRINGS SIMMENTALS

Genetic Evaluations (02 Apr 2020)

Tag AN28 | Pen | Tattoo | RAD 28G

Contact **JAMES MCKINLAY - SILVERSPRINGS SIMMENTALS**
HC/Breed **P 3/4 RED ANGUS 7/32 SM 1/32 XX 0**   519-599-6236
Birthdate **01Apr2019**   Colour
SireSire   **RED LAZY MC CC DETOUR 2W**
Sire   **RED PATCHELLS CRACKER JACK**
Dam   **RAD 26D**
DamSire   **MARYWOOD LEX LUTHOR**

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO$
%ab	75	78	73	43	98	94					N/R
ABC Acc	**4** 29	**-3.3** 54	**47** 43	**22** 16	**56** 46	**103** 45					
%wb											

CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	83	553	101	635	1270	5.37	3.60										

Tag AN44 | Pen | Tattoo | RAD 44G

Contact **JAMES MCKINLAY - SILVERSPRINGS SIMMENTALS**
HC/Breed **P RED ANGUS**   519-599-6236
Birthdate **24Mar2019**   Colour
SireSire   **RED LAZY MC CC DETOUR 2W**
Sire   **RED PATCHELLS CRACKER JACK**
Dam   **RED BIRCHLAWN REB 11T**
DamSire   **RED GP CATALYST 025**

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO$
%ab	84	81	8	67	83	40	93	23	91	62	N/R
ABC Acc	**5** 29	**-3.6** 57	**26** 45	**27** 22	**42** 49	**68** 47	**1.38** PE	**-.16** PE	**.53** PE	**.69** PE	
%wb	55	52	5	66	63	23	75	82	68	54	

CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	82	442	81	520	1055	4.53	2.92										

Tag AN54 | Pen | Tattoo | RAD 54G

Contact **JAMES MCKINLAY - SILVERSPRINGS SIMMENTALS**
HC/Breed **P RED ANGUS**   519-599-6236
Birthdate **22Mar2019**   Colour
SireSire   **RED SILVEIRAS MISSION NEXUS**
Sire   **RED PATCHELLS TUSCON**
Dam   **RAD 56U**
DamSire   **RED STALBURN RUSTY 4R**

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO$
%ab	90	85	8	89	4	4	84	15	95	66	N/R
ABC Acc	**5** 33	**-4.0** 57	**27** 44	**32** 19	**9** 48	**36** 46	**1.14** PE	**-.28** PE	**.60** PE	**.75** PE	
%wb	70	60	5	90	1	1	45	57	83	60	

CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	85	441	81	520	1030	4.25	2.84										

Tag AN82 | Pen | Tattoo | RAD 82G

Contact **JAMES MCKINLAY - SILVERSPRINGS SIMMENTALS**
HC/Breed **P RED ANGUS**   519-599-6236
Birthdate **28Mar2019**   Colour
SireSire   **RED LAZY MC CC DETOUR 2W**
Sire   **RED PATCHELLS CRACKER JACK**
Dam   **RAD 41D**
DamSire   **RED RAVENNA 12U**

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO$
%ab	86	84	61	79	95	88					N/R
ABC Acc	**5** 28	**-3.9** 53	**43** PE	**29** PE	**50** 45	**93** PE					
%wb	60	58	57	80	88	79					

CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	84	N/A		645	1245	4.99	3.49										

Tag C121 | Pen | Tattoo | CC 121G

Contact **JAMES MCKINLAY - SILVERSPRINGS SIMMENTALS**
HC/Breed **P CHAROLAIS**   519-599-6236
Birthdate **13Mar2019**   Colour
SireSire   **WDZ FIREMAKER 6062 P**
Sire   **CEDARVALE YELLOWSTONE 25Y**
Dam   **GOLD-BAR NASCAR 121A**
DamSire   **KEYS ALL STATE 149X**

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO$
%ab	30	31	59	13	63	63					N/R
ABC Acc	**0** 14	**.2** 44	**43** 33	**15** 10	**35** 40	**78** 37					
%wb	78	79	41	30	39	39					

CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	88	510	93	625	1150	4.67	3.09										

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Genetic Evaluations (02 Apr 2020)

Tag SM11 Pen Tattoo **JJMC 211G**

Contact **JAMES MCKINLAY - SILVERSPRINGS SIMMENTALS**
HC/Breed **P 1/2 SIMMENTAL 1/2 AR 0** 519-599-6236
Birthdate **07Apr2019** Colour
SireSire **GRFA 121A**
Sire **RED GRIST FIRE FLY PACKER 209E**
Dam **FVFR RED MARIE 5D**
DamSire **WS PRIME BEEF Z8**

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO$
%ab	64	63	78	74	91	89	67	24	64	82	
ABC Acc	3 22	-2.2 51	48 40	28 16	46 45	94 43	.59 PE	-.14 PE	.22 PE	1.10 PE	N/R
%wb											

	CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	85	593	108	630	1190	4.75	3.43										

Tag SM19 Pen Tattoo **JJMC 19G**

Contact **JAMES MCKINLAY - SILVERSPRINGS SIMMENTALS**
HC/Breed **P 1/2 SIMMENTAL 15/32 AR 1/32 XX 0** 519-599-6236
Birthdate **20Apr2019** Colour
SireSire **NLDF YANKEE 319Y**
Sire **JJMC 29D**
Dam **BJLS 39U**
DamSire **RAD 5R**

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO$
%ab	67	66	94	92	49	83	65	23	69	67	
ABC Acc	3 24	-2.4 51	58 41	33 21	31 45	89 43	.51 PE	-.17 PE	.29 PE	.77 PE	N/R
%wb											

	CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	87	673	123	720	1215	4.32	3.64										

Tag SM24 Pen Tattoo **JJMC 124G**

Contact **JAMES MCKINLAY - SILVERSPRINGS SIMMENTALS**
HC/Breed **P SIMMENTAL** 519-599-6236
Birthdate **09Apr2019** Colour
SireSire **SUNNY VALLEY DECKER 54B**
Sire **MAPLE KEY DUKE OF EARL**
Dam **SULLYS CAMEO**
DamSire **3D RED POWER 150Z**

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO$
%ab	51	39	99	63	99	99	53				
ABC Acc	2 19	-.5 48	69 35	26 10	69 41	138 38	.15 PE				N/R
%wb	85	76	94	33	99	99	83				

	CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	87	635	116	695	1360	5.86	3.94										

Tag SM30 Pen Tattoo **JJMC 30G**

Contact **JAMES MCKINLAY - SILVERSPRINGS SIMMENTALS**
HC/Breed **P SIMMENTAL** 519-599-6236
Birthdate **01Apr2019** Colour
SireSire **SUNNY VALLEY DECKER 54B**
Sire **MAPLE KEY DUKE OF EARL**
Dam **SILVER SPRINGS 20D**
DamSire **MARYWOOD LEX LUTHOR**

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO$
%ab	51	43	96	28	54	87	42				
ABC Acc	2 26	-.8 52	60 40	19 13	33 43	93 42	-.05 PE				N/R
%wb	85	80	83	7	48	71	60				

	CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	85	581	106	630	1100	4.15	3.12										

Tag SM39 Pen Tattoo **JJMC 39G**

Contact **JAMES MCKINLAY - SILVERSPRINGS SIMMENTALS**
HC/Breed **P 3/4 RED ANGUS 1/4 SM 0** 519-599-6236
Birthdate **29Mar2019** Colour
SireSire **RED SILVEIRAS MISSION NEXUS**
Sire **RED PATCHELLS TUSCON**
Dam **JJMC 41A**
DamSire **LDS 2X**

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO$
%ab	94	93	84	91	6	34	70	30	83	61	
ABC Acc	6 28	-5.3 51	51 40	33 12	13 45	64 43	.74 PE	-.05 PE	.46 PE	.67 PE	N/R
%wb											

	CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	82	630	115	735	1195	3.98	3.36										

202017 SILVERSPRINGS SIMMENTALS

Genetic Evaluations (02 Apr 2020)

Tag **SM66**	Pen	Tattoo	**JJMC 66G**

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO$
%ab	80	73	66	55	20	41	56	25	59	53	
ABC Acc	**4** 30	**-2.9** 53	**45** 42	**24** 12	**23** 46	**68** 44	**.22** PE	**-.13** PE	**.14** PE	**.54** PE	N/R
%wb											

Contact **JAMES MCKINLAY - SILVERSPRINGS SIMMENTALS**
HC/Breed **P   1/2 RED ANGUS 15/32 SM 1/32 XX 0   519-599-6236**
Birthdate **28Mar2019**   Colour
SireSire   **RED SIX MILE GAME FACE 164Y**
Sire   **RED PATCHELLS PHOENIX**
Dam   **JJMC 16E**
DamSire   **MARYWOOD LEX LUTHOR**

CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	83	563	103	580	1085	4.38	3.04										

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202017 SILVERSPRINGS SIMMENTALS

Genetic Evaluations (02 Apr 2020)

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	10	100	83	516	587	718	876	996	1114	4.49	3.15								
CHAROLAIS	1	100	88	510	625	715	895	1050	1150	4.67	3.09								
SIMMENTAL	2	100	86	608	663	763	950	1115	1230	5.01	3.53								
CROSSBRED	3	100	85	610	643	755	913	1047	1163	4.48	3.37								
Group Averages	16	100	84	546	609	730	893	1024	1140	4.56	3.24								