

Bull Evaluation Centre Report

202301 Patchell Livestock

(End of Test) Test Date: 01 Mar 2023 Days on Test: 112

Centre Manager: BRUCE & BRENDA PATCHELL Start of Test Date: 09 Nov 2022

Phone #: 226-820-0899 End of Test Date: 01 Mar 2023

EMail: Pick Up Date:

Address: 402304 GREY RD. 4,R.R. #1, HANOVER, ON, N4N 3B8

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 (Ibs) - 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 (Ibs/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 (Ibs/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 Intramus cular 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 <u>unassisted</u> calvings if the bull is mated with heifers that are an average size and have average calving ability.

BW - Birth Weight ABC (Ibs) - 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 (Ibs 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 (s quare inches) - Predictor of the differences in progeny ribeye area (muscling), adjusted to a common age.

% IMF - Intramus cular 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

202301 Patchell Livestock



			Genetic	Evalua	atior	ns (14	Mar 20)23)											•	44	Yey
Tag 002	Pen	Tattoo	MAJ 2K			CE	BW	WG	1	Milk	PWG	Y	'G	FAT		REA	%IMF	S	С	BIO\$	
Contact BRUCE & BRENDA PATCHELL - PATCHELL LIVESTOCK HC/Breed ANGUS 226-820-0899 Birthdate 07Jan2022 Colour Red SireSire RED WILD ROSE ROBIN HOOD 11F					СС	83 5 23 54	83 -4.0 51 58	66 47 60	41	87 32 17	99 60 44 96	94 106 89	43	98 1.78 96	47	22 24 41 69	78 .44 4 39	9 1 1.3 :	5 60	86 4284 84	
Sire Dam	RED NORTHLINE ROPATCHELL HALO	OB ROY 122K		CE	BW 83	AWW 825	WI	SOT 1058	EOT 1597	ADG 4.81		НН 53.0	Frame	Fat	REA		%lmf 2.62	Adj%lmf 2.29	Grade PD-A	SC 44.0	AdjSC 42.1
DamSire	RED SIX MILE SIG	NATURE 295B													1						
Tag 004	K Pen	Tattoo	BBP 4K			CE	BW	WG	1	Milk	PWG	Y	'G	FAT		REA	%IMF	S	С	BIO\$	
HC/Breed	RED ANGUS 07Jan2022	PATCHELL - PATCHELL Colour Red	LIVESTOCK 226-820-0899	%ab ABC A %wb	СС	51 2 19 15	60 -2.1 49 25	3 21 1		12 15 9	3 5 42 1	2 26 1	40	53 . 30 1	43	25 21 37	71 . 39 3 20	78	6	1 1087 1	
SireSire Sire	RED MRLA RESOURED U2 TOWNSHIP			CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	НН	Frame	e Fat	REA	AdiREA	%Imf	Adi%lmf	Grade	sc	AdjSC
Dam DamSire	RED SIX MILE LASS RED BASIN EXT 4	SIE 207Z		U	98	688	VVI	903	1281			50.0		8	14.8		2.62	2.29	PD-A	38.0	36.1
Tag 017	'K Pen	Tattoo	BBP 17K			CE	BW	WG		Milk	PWG	Y	'G	FAT		REA	%IMF	: s	С	BIO\$	
Contact HC/Breed		PATCHELL - PATCHELL Colour Red		%ab ABC A	СС	89 6 21	91 -5.1 51	51 43	39	27 20 13	75 39 43		41	71 .83	46	32 11 40	69 . 37 4		6 60	60 3544	
SireSire Sire Dam	TER-RON PARK P RED TER-RON MON Red Grists Floress	LACE 18Y IOPOLY 84A		%wb	BW 81	68 AWW 788	75 WI	43 SOT 1004	EOT	ADG 4.13		HH 54.5	Frame		REA		15 %Imf 2.34	9 Adj%lmf 2.04	Grade	60 SC 43.0	AdjSC
DamSire	RED LJC MISSION	STATEMENT P27									0.00			10	10.0	10.1					
Tag 022	Pen	Tattoo	BBP 22K		_	CE	BW	WG	1	Milk	PWG	Y	'G	FAT		REA	%IMF	S	С	BIO\$	
HC/Breed	BRUCE & BRENDA RED ANGUS 18Jan2022 RRA AVIATOR 507	PATCHELL - PATCHELL Colour RED	LIVESTOCK 226-820-0899	%ab ABC A %wb	СС	91 6 17 74	89 -4.7 48 69	93 59 93	35	60 26 10 57	98 58 42 95	98 116 95	39	98 1.67 94	46	6 48 40 16	88 . 51 4	9. 0 1.5	4 60	82 4103 80	
Sire	Red NCJ Coming in			CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	НН	Frame	Fat	REA	AdjREA	%lmf	Adj%lmf	Grade	SC	AdjSC
Dam DamSire	PATCHELL HALO RED SIX MILE SIG	NATURE 295B		U	90	N/A	ET	1028	1541	4.63	3.79	51.5	5.7	13	13.2	12.3	3.15	2.82	Α	44.5	43.0
Tag 027	′K Pen	Tattoo	BBP 27K			CE	BW	WG	ı	Milk	PWG	Y	'G	FAT		REA	%IMF	S	С	BIO\$	
HC/Breed Birthdate	RED ANGUS 15Jan2022	Colour Red	LIVESTOCK 226-820-0899	%ab ABC A %wb	СС	90 6 19 70	91 -5.1 49 75	37 39 28	37	33 21 11 24	50 32 42 22	43 71 22	40	87 1.23 66	44	31 11 39 88	90 .52 3 72		0 5 59	44 3181 44	
SireSire Sire	RED COCKBURN I			CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	НН	Frame	Fat	REA	AdjREA	%lmf	Adj%lmf	Grade	SC	AdjSC
Dam DamSire	RED PATCHELL ELS	SA		U	74	781		915	1375	4.00	3.35	49.0	4.4	11	15.0		2.94	2.62	Α	38.5	36.9

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Bull Evaluation EOT Report

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Genetic Evaluations (14 Mar 2023)

Tag 038K	Pen	Tattoo	BBP 38K			CE	BW	WG	1	Milk	PWG	Y	G	FAT		REA	%IMF	S	C	BIO\$	
	CE & BRENDA F RED ANGUS	PATCHELL - PATCHE	ELL LIVESTOCK 226-820-0899	%ab		92 6 15	90 -4.9 45	84 53		47 24 6	98 56 40	96 109		80 1.06	44	4 53 38	69 . 37 38	65	5 1 59	65 3678	
	b2022 A AVIATOR 507	Colour Red		%wb		75	72	81		41	93	91		48		11	15	56		66	
	NCJ Coming in			CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	НН	Frame	Fat	REA	AdjREA	%lmf	Adj%lmf	Grade	SC	AdjSC
	TER-RON RENE D SIX MILE FIFT			U	79	824		850	1369	4.67	3.54	51.5	6.0	10	12.8	12.3	1.98	1.87	PD-A	40.5	39.7
Tag 047K	Pen	Tattoo	BBP 47K			CE	BW	WG	ı	Milk	PWG	Y	G	FAT		REA	%IMF	S	С	BIO\$	
		PATCHELL - PATCHE		%ab		74	63	26		41	16	18		75		2	76	85	5	4	
	RED ANGUS n2022	Colour Red	226-820-0899	ABC A		4 14	-2.3 44	36 17		23 6	21 39		36	.91	43	61 37	.42 3			1596 2	
SireSire REI	D SVR CONTINE	NTAL 112E		76WD		38	28	17		34		5		33		5	34	86	·		
		NTINENTAL 9059		CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	НН	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	sc	AdjSC
	EXCEL BARB 0 D HAZEL BLUFF			U	90	781		893	1290	3.44	3.23	51.6	5.9	10	12.4	11.7	2.44	2.23	PD-A	42.5	41.3

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Genetic Evaluations (14 Mar 2023)

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	1	100	83	825	1058	1224	1360	1493	1597	4.81	3.82	53.0	6.4	14	14.4	13.1	2.62	2.29	44.0
RED ANGUS	6	100	85	772	932	1059	1157	1268	1389	4.01	3.42	51.4	5.7	10	13.9	12.9	2.58	2.31	41.2
Group Averages	7	100	85	781	950	1082	1186	1300	1418	4.12	3.47	51.6	5.8	11	13.9	12.9	2.58	2.31	41.6

Provision and Use of Information Produced by BIO As part of the terms and conditions of Beef Improvement Ontario (BIO) Beef Evaluation Services, it is understood that information provided by BIO including, but not limited to, genetic and carcass evaluations are produced using the very best knowledge available and are pursuant to generally accepted industry standards. The raw data and pedignee used in calculations is provided by the client. The information provided by BIO is for comparative purposes only for both the animal consignor and buyer. This information is provided for the purpose of general guidance only to beef producers. The purchaser and/or user of this information agrees to hold Beef Improvement Ontario harmless for any losses or damages that may be incurred as a result of receipt of and/or reliance upon this general comparative information. This clause shall be a complete defense to any dain brought by the purchaser and/or user in relation to such services.

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