

Bull Evaluation Centre Report

202201 202201 Patchell Livestock (End of Test) Test Date: 01 Mar 2022 Days on Test: 112

Centre Manager: BRUCE & BRENDA PATCHELL Start of Test Date: 09 Nov 2021

Phone #: 226-820-0899 End of Test Date: 01 Mar 2022

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

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				Genetic	Evalu	atio	ns (10	Mar 20)22)								1			•		
Tag 002	J	Pen	Tattoo	BBP 2J			CE	BW	WG		Milk	PWG	Y	G	FAT		REA	%IMF	= S	C	BIO\$	
Contact I	BRUC	E & BRENDA	PATCHELL - PATCHELL	LIVESTOCK	%ab		62	60	12		24	61	31		69		9	67	1	7	12	
HC/Breed		NGUS		226-820-0899	ABC	Acc	3 17	-2.0 47	29	36	19 11	35 42	64	39	.82	44	43 38	.34 3	38 .1	2 59	2233	
Birthdate '		-	Colour Red		%wb		22	24	6		16	33	13	.	22		21	12		7	12	
SireSire		YCLC Copenh	nagen 653C																			1 1100
		2 Nova 624F			CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	НН	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
Dam I DamSire		BBP PISTOL A TER-RON FU	NNIE 2Z LLY LOADED 540R		U	94	694		980	146	0 4.19	3.56	50.0	5.0	9	14.4	13.3	2.35	2.09	PD-A	40.0	38.4
Tag 007	J	Pen	Tattoo	BBP 7J			CE	BW	WG		Milk	PWG	Y	G	FAT		REA	%IMF	- s	SC	BIO\$	
Contact I	BRUC	E & BRENDA	PATCHELL - PATCHELL	. LIVESTOCK	%ab		77	74	54		45	27	39		76		6	60	1	6	9	
HC/Breed		ED ANGUS		226-820-0899	ABC	Acc	4 32	-3.1 53	43	45	23 30	26 49	68	47	1.00	49	47 44	.27 4	.0 14	9 62	2077	
Birthdate (-	Colour Red		%wb		42	43	46		42	7	20		39		15	2		6	8	
SireSire Sire I		COMPASS M	ULBERRY 449M		CE	BW	AWW	WI	SOT	EOT	Γ ADG	WPDA	НН	Гиана	Fat	REA	۸۹:۵۲۸	%Imf	A al:0/ least	Grade	sc	AdjSC
		atchell Whisk			CE			VVI		-	-			Frame					Adj%lmf			
DamSire			LLY LOADED 540R		U	82	797		1002	137	7 3.34	3.26	52.0	5.8	10	13.5	12.3	1.85	1.60	PD	39.0	36.9
Tag 010	J	Pen	Tattoo	BBP 10J			CE	BW	WG		Milk	PWG	Y	G	FAT		REA	%IMF	S	iC	BIO\$	
Contact I	BRUC	E & BRENDA	PATCHELL - PATCHELL	LIVESTOCK	%ab		35	37	22		44	49	33		52		31	83	5	4	20	
HC/Breed		NGUS		226-820-0899	ABC	Acc	0 20	3 49	34	38	23 12	32 42	66	40	.30	44	20 39	.48 3	. 7	2 59	2583	
		2021, Twin	Colour Red		%wb		6	8	14		41	22	15		1		76	55	4	7	21	
SireSire		U2 Recon 192																				1 1100
		2 Reckoning 1			CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	НН	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
Dam I DamSire		atchells Kassi NORTHLINE	e 10B ROB ROY 122K		U	88	764		925	137	6 3.88	3.38	49.5	4.7	6	15.3	14.2	2.99	2.68	Α	41.5	40.0
Tag 011	J	Pen	Tattoo	BBP 11J			CE	BW	WG		Milk	PWG	Y	G	FAT		REA	%IMF	S	iC	BIO\$	
Contact I	BRUC	E & BRENDA	PATCHELL - PATCHELL	LIVESTOCK	%ab		68	64	57		48	79	72		67		51	75	4	8	64	
HC/Breed	Α	NGUS		226-820-0899	ABC	Acc	3 20	-2.3 50	44	39	24 10	40 43	84	41	.79	46	.06 41	.41 4	.6	4 60	3686	
Birthdate (Colour Red		%wb		29	28	50		45	55	53		18		96	32	4	1	65	
SireSire		RINGSTEAD																				
		RINGSTEAD K			CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	НН	Frame	Fat	REA	AdjREA	%lmf	Adj%Imf	Grade	SC	AdjSC
Dam I DamSire		atchell Kassie FINE LINE MU	-		U	91	798		856	134	4 4.26	3.69	49.0	5.0	7	16.4	16.4	2.32	2.33	PD-A	40.0	40.0
Tag 014	J	Pen	Tattoo	BBP 14J			CE	BW	WG		Milk	PWG	Y	G	FAT		REA	%IMF	: s	SC	BIO\$	
		E & BRENDA	PATCHELL - PATCHELL		%ab		49	42	57		31	77	70		97		6	91	3	7	22	
HC/Breed		NGUS		226-820-0899	ABC	Acc	2 17	7 46	43	35	21 8	40 41	83		1.58	44	47 38	. 53 3	1 -	9 59	2651	
Birthdate (07Feb	2021	Colour Red		%wb		12	11	49		24	53	51		92		15	75	2	- 11	23	
SireSire	Red	YCLC Copenh	nagen 653C														-					
		2 Nova 624F			CE	BW	AWW	WI	SOT	EO	ADG	WPDA	НН	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
		atchell Meran			U	106	828		1050	151	3 4.16	3.91	50.0	5.2	13	14.1	13.6	3.37	3.18	Α	40.5	39.7
DamSire	RED	SIX MILE GAI	ME FACE 164Y																			

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Genetic Evaluations (10 Mar 2022)

Tag 022J	Pen	Tattoo	BBP 22J			CE	BW	WG		Milk	PWG	Y	G	FAT		REA	%IMF	S	С	BIO\$	
		PATCHELL - PATC	CHELL LIVESTOCK	%ab		96	96	48		64	63	57		99		30	98	9	7	48	
	NGUS		226-820-0899	ABC	Acc	7 20	-6.4 50	41 :	38 2	27 15	36 43	77	41	2.44	45 -	.20 39	.67 39	1.9	5 59	3333	
Birthdate 05Jar		Colour Black		%wb		88	90	40	(65	35	37	•	99		75	96	9:	9	48	
SireSire RED	SIX MILE SIG	SNATURE 295B																			
Sire Patch	ell John Henr	У		CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%lmf	Grade	SC	AdjSC
		DRGET ME NOT		U	80	758		1074	1548	4.16	3.69	50.5	5.1	18	15.8	14.3	4.22	3.67	AA	46.0	44.0
DamSire RED	FINE LINE IV	ULBERRY 26P																			
Tag 050J	Pen	Tattoo	BBP 50J			CE	BW	WG		Milk	PWG	Y	G	FAT		REA	%IMF	S	С	BIO\$	
Contact BRUC	CE & BRENDA	PATCHELL - PATC	CHELL LIVESTOCK	%ab		94	97	39		29	75	59		95		31	76	6	9	53	
HC/Breed A	NGUS		226-820-0899	ABC	Асс	7 19	-6.6 47	39 :	37	20 14	39 42	78	40	1.51	45 -	.19 39	.42 39	9.9	3 60	3428	
Birthdate 18Jar	12021	Colour Red		%wb		82	91	31	:	21	49	40)	89		78	36	6	7	51	
SireSire Red	U2 Recon 19	2Y																			
Sire Red L	J2 Reckoning	149A		CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
	HELL NEON			U	71	708		950	1441	4.32	3.54	50.5	5.2	13	15.5	14.4	2.56	2.30	PD-A	42.0	40.5
DamSire RED	OIX MILE SIG	SNATURE 295B																			

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Genetic Evaluations (10 Mar 2022)

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	6	100	88	758	973	1125	1233	1342	1447	4.16	3.63	49.9	5.0	11	15.3	14.4	2.97	2.71	41.7
RED ANGUS	1	100	82	797	1002	1102	1180	1288	1377	3.34	3.26	52.0	5.8	10	13.5	12.3	1.85	1.60	39.0
Group Averages	7	100	87	764	977	1122	1225	1334	1437	4.04	3.58	50.2	5.2	11	15.0	14.1	2.81	2.55	41.3

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 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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