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Bull Evaluation Centre Report

201916 CRYSTAL FARMS

(End of Test)

Test Date: **30 Mar 2019** Days on Test: **112**

Centre Manager: **PAUL FERGUSON**

Start of Test Date: **08 Dec 2018**

Phone #: **613-275-2422**

End of Test Date: **30 Mar 2019**

E Mail: **ferguson.maryellen@gmail.com**

Pick Up Date:

Address: **21 CRYSTAL RD.,R.R. #3 , JASPER , ON , K0G 1G0**

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 (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

201916 CRYSTAL FARMS



Genetic Evaluations (03 Apr 2019)

Tag	Pen	Tattoo	BGT 1F
Contact	JOHN LEHEUP		
HC/Breed	P	BLONDE D-AQUITAINE	613-353-1257
Birthdate	01Jan2018	Colour	
SireSire	WSS REX 6R		
Sire	ROSENEATH WILLIAM 4W		
Dam	BOGART YVETTE 7Y		
DamSire	CRYSTAL WILMER 19W		

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO\$
%ab	64	72	20	40	6	8	1	90		2	
ABC Acc	3 ³⁵	-2.7 ⁵⁵	32 ^{PE}	21 ^{PE}	13 ⁴⁸	45 ^{PE}	-1.32 ^{PE}	.69 ^{PE}		-1.38 ^{PE}	N/R
%wb	80	80	37	60	67	52	1	54		30	

	CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	86	N/A			1100	1500	3.13	3.31										

Tag	Pen	Tattoo	GLBF 3F
Contact	GEORGE BELL - BELLSTAR FARM		
HC/Breed	ANGUS		613-284-2475
Birthdate	04Jan2018	Colour	BLACK
SireSire	S A V REGISTRY 2831		
Sire	S A V SENSATION 5615		
Dam	HF ECHO 195Z		
DamSire	RIVERBEND POWERLINE 0050		

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO\$
%ab	89	85	47		1	5	68	12	77	37	
ABC Acc	5 ^{PE}	-3.9 ^{PE}	40 ^{PE}		-2 ⁴⁵	38 ^{PE}	.54 ^{PE}	-.30 ^{PE}	.39 ^{PE}	.17 ^{PE}	N/R
%wb	67	59	43		1	1	2	51	12	17	

	CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	75	N/A			890	1175	2.70	2.61										

Tag	Pen	Tattoo	PFER 5F
Contact	PAUL FERGUSON - CRYSTAL FARMS		
HC/Breed	P	BLONDE D-AQUITAINE	613-275-2422
Birthdate	05Jan2018	Colour	
SireSire	BAR SUMMIT 043Z		
Sire	TOP NATURS TOPPER 011C		
Dam	PFER 23D		
DamSire	CRYSTAL WALDO 23W		

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO\$
%ab	72	75	42	49	11	21	4	68	2	11	
ABC Acc	3 ³⁹	-3.0 ⁶⁰	38 ⁵²	23 ³³	18 ⁵⁰	56 ⁵¹	-.78 ^{PE}	.40 ^{PE}	-.29 ^{PE}	-.70 ^{PE}	N/R
%wb	85	83	64	69	87	79	99	21	73	87	

	CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	78	681	107		1085	1525	3.73	3.40										

Tag	Pen	Tattoo	OOAK 8F
Contact	NICHOLAS BOYD - ONE OAK BLONDES		
HC/Breed	BLONDE D-AQUITAINE		519-835-9099
Birthdate	24Mar2018	Colour	
SireSire	FLAMBAR		
Sire	LANGSTAFRF DEZ 21D		
Dam	LANGSTAFF DENISE 31D		
DamSire	ZORO 25Z		

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO\$
%ab	15	21	12	23	3	4					
ABC Acc	-2 ^{PE}	1.3 ^{PE}	28 ^{PE}	18 ^{PE}	7 ⁴¹	35 ^{PE}					N/R
%wb	22	22	24	43	36	26					

	CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	85	N/A			615	1000	3.30	2.70										

Tag	Pen	Tattoo	GTN 10F
Contact	David and Lisa Payne - BAR K FARMS		
HC/Breed	P	BLONDE D-AQUITAINE	613-859-9870
Birthdate	02Feb2018	Colour	
SireSire	ARSHAS POLLED TROOPER		
Sire	CRYSTAL AMBUSH 18A		
Dam	WEST WINDS BRITTNEY 152B		
DamSire	WEST WINDS WORKMAN 9		

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO\$
%ab	55	58	54	44	1	5	1	88	1	1	
ABC Acc	2 ³⁷	-1.7 ⁶¹	41 ^{PE}	22 ^{PE}	-3 ⁵⁰	38 ^{PE}	-1.22 ^{PE}	.65 ^{PE}	-.38 ^{PE}	-1.51 ^{PE}	N/R
%wb	73	68	76	64	7	34	12	47	18	22	

	CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	92	N/A			675	1000	3.13	2.38										

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Genetic Evaluations (03 Apr 2019)

Tag 012F Pen Tattoo **PFER 12F**
 Contact **SHELDON ASSELSTINE**
 HC/Breed **P BLONDE D-AQUITAINE** **613-483-3385**
 Birthdate **17Jan2018** Colour
 SireSire **ROSENEATH WILLIAM 4W**
 Sire **WSS CELEBRATION 2C**
 Dam **PFER 5D**
 DamSire **CRYSTAL AMBUSH 18A**

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIOS\$
%ab	56	65	59	87	15	31					
ABC Acc	2 ³¹	-2.2 ⁵⁸	43 ⁴⁸	31 ²⁰	20 ⁴⁵	63 ⁴⁷					N/R
%wb	74	74	80	94	91	89					

CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	80	671	105	985	1450	3.66	3.32										

Tag 018F Pen Tattoo **GTN 18F**
 Contact **David and Lisa Payne - BAR K FARMS**
 HC/Breed **P BLONDE D-AQUITAINE** **613-859-9870**
 Birthdate **10Feb2018** Colour
 SireSire **ARSHAS POLLED TROOPER**
 Sire **CRYSTAL AMBUSH 18A**
 Dam **CRYSTAL BESSIE 11B**
 DamSire **CRYSTAL WALDO 23W**

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIOS\$
%ab	30	47	25	39	4	7	1	86	1	2	
ABC Acc	0 ³⁶	-1.0 ⁶⁰	34 ^{PE}	21 ^{PE}	9 ⁴⁸	42 ^{PE}	-1.16 ^{PE}	.62 ^{PE}	-0.37 ^{PE}	-1.35 ^{PE}	N/R
%wb	47	57	46	60	46	47	38	43	31	32	

CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	87	N/A		900	1355	3.59	3.28										

Tag 027F Pen Tattoo **PFER 27F**
 Contact **PAUL FERGUSON - CRYSTAL FARMS**
 HC/Breed **P BLONDE D-AQUITAINE** **613-275-2422**
 Birthdate **31Jan2018** Colour
 SireSire **ROSENEATH WILLIAM 4W**
 Sire **WSS CELEBRATION 2C**
 Dam **Franmar Crystal 11C**
 DamSire **PFER 25Z**

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIOS\$
%ab	31	35	21	49	13	14					
ABC Acc	0 ²⁶	-1 ⁵²	32 ⁴²	23 ²⁰	19 ⁴³	51 ⁴³					N/R
%wb	48	42	38	68	89	67					

CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	98	605	95	935	1380	3.57	3.26										



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	75		890	990	1060	1175	1175	2.70	2.61								
BLONDE D-AQUITAINE	7	100	87	652	899	1022	1116	1154	1316	3.44	3.09								
Group Averages	8	100	85	652	898	1018	1109	1156	1298	3.35	3.03								

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