Aberdeen & Northern Marts

A *member of* ANM GROUP LTD.

THAINSTONE CENTRE, INVERURIE

TELEPHONE : 01467 623710

MULTI BREED SALE of PEDIGREE CATTLE

Wednesday 24th February 2021

Sale of Pedigree Bulls at 2.00 pm in Thainstone Exchange

Parade of Bulls from 12.00 Noon

ONLINE BIDDING

Remote bidding available at this sale

SOCIETY INSPECTIONS - WEDNESDAY 24th FEBRUARY

Vet Inspections by Donview Vets

Charolais - 8.30am – 9.30am

Limousin - 9.30am – 10.15am

Simmental - 10.15am – 10.30am

Aberdeen-Angus - 10.30am – 10.45am

PROGRAMME OF EVENTS WEDNESDAY 24th FEBRUARY

12:00noon - Parade of Pedigree Bulls Within Thainstone Exchange

2:00pm - Sale of Pedigree Bulls Within Thainstone Exchange

Immediately Followed Online by Spring Online Sale of Pedigree Bulls
In Conjunction with Sell My Livestock

Special Rules for Sellers to Cover COVID-19 Regulations

This information is correct at the time of printing and is subject to changes in Government Guidelines or Directives regarding the control of the spread of COVID-19.

- All sellers **MUST REGISTER** prior to the sale upon entry at the front door. Telephone: 01467 623700.

- To facilitate the Test and Trace system, all customers will be required to sign into the market. This process will include a declaration that they have not been in contact with anyone displaying symptoms of COVID-19, nor are they displaying symptoms personally.

- **One** person per consignment may stay with their consignment pre-sale and will be allowed to lead their lots into the ring. Thereafter they must leave the penning area immediately.

- Please respect the 2-metre social distancing measures that are in place at all times.

- Face masks must be worn at ALL TIMES.

- No children under 16 years old will be able to attend the sales and this must be strictly adhered to as entry will be refused.

- Pregnant ladies must not attend the sale.

- Hand sanitiser stations will be available throughout the mart; however, it is strongly recommended that both consignors and buyers have an adequate personal supply and to use it regularly.

- Please follow instructions from market staff in ensuring social distancing is observed wherever possible.

Please be kind and respect each other to ensure everyone keeps safe at all times.

Your co-operation and understanding is appreciated during this challenging times.

Special Rules for Buyers to Cover COVID-19 Regulations

This information is correct at the time of printing and is subject to changes in Government Guidelines or Directives regarding the control of the spread of COVID-19.

- Potential purchasers **MUST REGISTER** prior to the sale and again upon entry at the front door. Telephone 01467 623700.

- Please remember that purchaser spaces will be limited, so only ONE person per business will be allowed entry.

- A parade of all bulls will take place from 12.00noon. All prospective purchasers can view this parade in the EXCHANGE HALL but must observe all social distancing rules. NO VIEWING IN THE PENS WILL BE ALLOWED.

- No children under 16 years old will be able to attend the sales and this must be strictly adhered to as entry will be refused.

- Pregnant ladies must not attend the sale.

- Please respect the 2-metre social distancing measures that are in place at all times.

- Face masks must be worn at ALL TIMES.

- To facilitate the Test and Trace system, all customers/visitors will be required to sign into the market. This process will include a declaration that they have not been in contact with anyone displaying symptoms of COVID-19, nor are they displaying symptoms personally.

- Hand sanitiser stations will be available throughout the mart; however, it is strongly recommended that both consignors and buyers have an adequate personal supply and to use it regularly.

- Please follow instructions from market staff in ensuring social distancing is observed wherever possible.

- If you are unable or do not wish to attend the mart but would like to bid on animal (s), then the auctioneers will faithfully execute commission bids for buyers. Please contact them and put your instructions in writing 48 hours in advance of the sale. Alternatively, you can arrange to make a telephone bid during the sale or register for our online bidding facility by visiting www.anmarts.co.uk

- Both the live sale and the online sale are being screened live and bidding online is available for both sales.

Please be kind and respect each other to ensure everyone keeps safe at all times.

Your co-operation and understanding is appreciated during this challenging times.

Buyers can take part in our auctions from anywhere in the world using the **Online bidding** internet system. They can watch and hear the sale as it happens and bid live on-line against ringside buyers. To register for bidding or to watch the sale visit our website :

ONLINE BIDDING AVAILABLE
GO TO

www.anmarts.co.uk

IMPORTANT NOTICE
TO PROSPECTIVE PURCHASERS

The animals in the Catalogue are offered for sale subject to the National Beef Association's standard Terms and Conditions of Sale.

These Terms and Conditions of Sale contain limitations to your rights and prospective purchasers should appraise themselves of the contents before the sale commences.

They have been drafted to form a fair and reasonable basis for the contract between the vendor and the purchaser to give you, as prospective purchasers, confidence in the animals offered for sale. The Terms and Conditions of Sale will be displayed in the Auctioneer's Office in and around the Sale premises on the day of Sale.

They are also available in a booklet which is obtainable on request from the Auctioneers, and all purchasers will be offered a copy when they settle their accounts. To cover the cost of this service, a supplement of £6.00 + VAT for Bulls and £4.00 + VAT for Females will be charged (Cost split between Vendor and Purchaser).

SOCIETY MINIMUM BID	
CHAROLAIS BULLS	**2,000 GNS**
LIMOUSIN BULLS	**2,000 GNS**
SIMMENTAL BULLS	**2,200 GNS**
ABERDEEN ANGUS BULLS	**2,000 GNS**

QR CODES

In this catalogue we have printed QR code for each animal, this will take you to the web page which will give you full information on pedigree, bar charts and photographs if available

Step 1
Download and install a QR code app on your smartphone if you don't yet have one. Open your App Store, Market, Marketplace or App World application (for the iPhone, Android, Windows Mobile and BlackBerry platforms, respectively).

Step 2
Search for "QR code reader," and then download and install a free app. The app should be named something to the effect of "QR Code Scanner" or "QR Scanner." There are paid versions of these kinds of apps, but the free ones work just as well.

Step 3
Open the QR barcode app on your smartphone, and choose "scan from camera" or "scan QR code" from the main menu. A new window should open with a square in the middle of it.

Step 4
Center the QR code in the middle of the square that's currently displayed by your QR barcode app. The app should automatically take a picture of the QR code for you when it has finished scanning the code. A new pop-up menu will appear, with the QR code information on it.

Step 5
Click the link that was embedded in the QR code, this will direct you to the Society website.

CHAROLAIS
THE BRITISH CHAROLAIS CATTLE SOCIETY

EXPLANATORY NOTES FOR CATALOGUES

Only British Charolais BREEDPLAN EBVs can be validly compared between Charolais herds.

ESTIMATED BREEDING VALUES (EBVS)

The EBV is the best estimate of an animal's genetic merit for that trait.

ACCURACY

An accuracy value (Acc) is presented with every EBV and gives an indication of the amount of information that has been used in the calculation of that EBV. The higher the accuracy the lower the likelihood of change in the animal's EBV as more information is analysed for that animal or its relatives.

CALVING EASE

Calving Ease EBVs are based on calving difficulty scores, birth weights and gestation length information. More positive EBVs are favourable and indicate easier calving.

DIR: Direct calving ease indicates how this animal influences the birth of its progeny. Using a bull in the Top 1% for CE direct (+16.7) is predicted to result in approximately 15% fewer assisted calvings in 2 year old heifers compared with using a bull in the Bottom 1% (-14.7). This range is predicted to be smaller in cows. **Remember that the dam's genetics and management are significant factors influencing calving ease in any mating.**

DTRS: Daughter's calving ease indicates how well the animal produces daughters that have easier calving.

BIRTH AND FERTILITY

GL: Gestation Length EBV (days) is based on AI records. Lower (negative) GL EBVs indicate shorter gestation lengths which generally relate to easier calving and increased growth after birth.

BWT: Birth Weight EBV (kg) is based on the measured birth weight of animals, adjusted for dam age. The lower the value the lighter the calf at birth and the lower the likelihood of a difficult birth. This is particularly important when selecting sires for use over heifers.

SS: Scrotal Size EBV (cm) is an indicator of male fertility in regards to semen quality and quantity. Higher (positive) EBVs indicate higher fertility. There is also a small negative correlation with age of puberty in female progeny.

GROWTH

MILK: 200-Day Milk EBV (kg) is an estimate of an animal's milking ability. For sires, this EBV is indicative of their daughter's milking ability as it affects the 200-day weight of their calves.

200: 200-Day Growth EBV (kg) is calculated from the weight of animals taken between 80 and 300 days of age. Values are adjusted to 200 days and for dam age. This EBV is the best single estimate of an animal's genetic merit for growth to early ages.

400: 400-Day Weight EBV (kg) is calculated from the weight of progeny taken between 301 and 500 days of age, adjusted to 400 days and for dam age. This EBV is the best single estimate of an animal's genetic merit for yearling weight.

600: 600-Day Weight EBV (kg) is calculated from the weight of progeny taken between 501 and 900 days of age, adjusted to 600 days and for dam age. This EBV is the best single estimate of an animal's genetic merit for growth beyond yearling age.

MWT: Mature Cow Weight EBV (kg) is an estimate of the genetic difference in cow weight at 5 years of age. Moderate or larger EBVs are generally more favourable.

CARCASE

EMA: Eye Muscle Area EBV (cm^2) estimates genetic differences in eye muscle area of a 300kg dressed carcase. More positive EBVs indicate better muscling on animals.

FAT: Rib Fat EBV (mm) estimates the genetic differences in fat depth at the rib in a 300kg dressed carcase. More positive EBVs indicate more subcutaneous fat and earlier maturity.

RBY%: Retail Beef Yield Percent EBV (%) represents total (boned out) meat yield as a percentage of a 300kg dressed carcase. A more positive EBV indicates higher percentage yield for the 300kg carcase size.

IMF%: Intra-muscular Fat Percent EBV (%) is an estimate of the genetic difference in the percentage of intra-muscular fat at the $12/13^{th}$ rib site in a 300kg carcase. Depending on market targets, larger more positive values are generally more favourable.

Terminal Index

The BCCS Terminal index is aimed at a commercial herd using Charolais bulls over large framed, mixed breed cows to breed steers and heifers to finish at 18 months of age. All progeny are destined for slaughter and no replacement females are selected from within the herd. There is some emphasis on calving ease while finishing steers at around 680 kg live weight (375 kg carcase weight) using a pasture based production system supplemented with extra rations during the finishing phase.

Use this index in a commercial herd to produce progeny for slaughter. The index has moderate emphasis on easier calving (ie getting a live calf with minimal human interference) while producing calves that will then grow quickly to market specifications at around 18 months of age. The index is focused on slaughter animals and does not account for maternal traits and is therefore not suited to breeding replacement females.

If you are using smaller framed cows or heifers in your herd, then you should also put extra emphasis on a higher calving ease direct EBV when selecting a sire using this index.

Self Replacing Index

The BCCS Self Replacing index is aimed at a Charolais herd breeding steers to finish at 16 months of age. Replacement females are selected from within the herd. There is some emphasis on calving ease and maternal traits while finishing steers for slaughter at around 680 kg live weight (375 kg carcase weight) using a pasture based production system.

This Self Replacing index is also suitable to using Charolais sires over mixed breed cows where replacement females are sourced from within the herd. There may be some hybrid vigour expressed in the progeny depending on the breed type of the cows used. Therefore you should consider placing extra emphasis on the Calving Ease EBVs (more positive) of the sire to allow for possible heavier birth weights of his calves due to hybrid vigour.

Use this index in both commercial and pedigree herds where you are balancing the requirements of selecting replacement females while also producing animals for slaughter.

Charolais EBV ratios have been incorporated with the Estimated Breeding Values (EBV) to assist breeders in making their selection decisions when purchasing Charolais cattle. The Charolais EBV ratio for each trait shows that animal`s breeding value for that trait in relation to the current published breed average.
The average for each trait is 100, and the approximate range between the bottom 1% and the top 1% is between 70 and 130.

The British Charolais BREEDPLAN Estimated Breeding Values contained in this Sale Catalogue were compiled by the Agricultural Business Research Institute (ABRI) from data supplied by the breeders. Neither the British Charolais Cattle Society nor the ABRI oversee or audit the collection of this data.

British Charolais
Percentile Bands for 2018 Born Calves

Percentile Band	Calving Ease Direct (%)	Calving Ease Daughters (%)	Gestation Length (days)	Birth Wt. (kg)	200 Day Wt. (kg)	400 Day Wt. (kg)	600 Day Wt. (kg)	Mat Cow Wt (kg)	200 Day Milk (kg)	Scrotal Size (cm)	Carcase Wt. (kg)	Eye Muscle Area (sq cm)	Fat Depth (mm)	Retail Beef Yield (%)	IMF (%)	BCCS Terminal Index	BCCS Self Replacing Index
Top Value	+26.3	+15.3	-2.7	-3.0	+54	+98	+116	+121	+19	+2.8	+84	+8.3	+1.7	+4.3	+1.3	+98	+92
Top 1%	+16.7	+8.6	-1.1	-0.3	+44	+77	+91	+91	+16	+1.4	+67	+6.1	+0.6	+2.7	+0.5	+73	+69
Top 5%	+11.9	+6.0	-0.4	+0.7	+39	+68	+81	+80	+14	+1.0	+60	+5.2	+0.3	+2.2	+0.2	+64	+61
Top 10%	+9.5	+4.6	-0.2	+1.1	+37	+64	+75	+74	+12	+0.7	+57	+4.7	+0.1	+2.0	+0.2	+60	+56
Top 15%	+7.9	+3.6	+0.0	+1.4	+35	+60	+72	+71	+12	+0.5	+54	+4.4	+0.0	+1.8	+0.1	+56	+52
Top 20%	+6.7	+2.8	+0.2	+1.6	+34	+58	+69	+68	+11	+0.4	+52	+4.2	-0.1	+1.7	+0.1	+54	+49
Top 25%	+5.7	+2.2	+0.3	+1.8	+32	+55	+66	+65	+10	+0.3	+50	+4.0	-0.1	+1.6	+0.1	+51	+47
Top 30%	+4.8	+1.6	+0.4	+2.0	+32	+53	+64	+63	+10	+0.2	+49	+3.8	-0.2	+1.5	+0.0	+49	+45
Top 35%	+3.9	+1.1	+0.5	+2.2	+31	+51	+62	+60	+9	+0.1	+47	+3.7	-0.2	+1.4	+0.0	+47	+43
Top 40%	+3.0	+0.5	+0.6	+2.3	+30	+50	+59	+58	+9	+0.1	+46	+3.5	-0.3	+1.3	+0.0	+46	+42
Top 45%	+2.2	-0.1	+0.7	+2.5	+29	+48	+58	+56	+8	+0.0	+45	+3.4	-0.3	+1.2	+0.0	+44	+40
Top 50%	+1.2	-0.6	+0.9	+2.6	+28	+47	+56	+55	+8	-0.1	+43	+3.3	-0.4	+1.2	-0.1	+43	+39
Top 55%	+0.4	-1.1	+1.0	+2.8	+27	+45	+54	+53	+8	-0.1	+42	+3.1	-0.4	+1.1	-0.1	+41	+37
Top 60%	-0.4	-1.7	+1.1	+2.9	+27	+44	+52	+51	+7	-0.2	+41	+3.0	-0.5	+1.0	-0.1	+40	+36
Top 65%	-1.3	-2.2	+1.2	+3.0	+26	+43	+50	+49	+7	-0.3	+40	+2.9	-0.5	+1.0	-0.1	+39	+34
Top 70%	-2.3	-2.8	+1.3	+3.2	+25	+41	+49	+47	+6	-0.4	+39	+2.8	-0.6	+0.9	-0.1	+37	+33
Top 75%	-3.3	-3.5	+1.5	+3.3	+24	+40	+47	+45	+6	-0.4	+38	+2.6	-0.6	+0.8	-0.2	+36	+31
Top 80%	-4.5	-4.2	+1.6	+3.5	+23	+38	+45	+43	+5	-0.5	+36	+2.5	-0.7	+0.7	-0.2	+34	+30
Top 85%	-5.8	-5.1	+1.8	+3.8	+22	+36	+42	+40	+4	-0.6	+35	+2.3	-0.8	+0.6	-0.2	+32	+29
Top 90%	-7.4	-6.2	+2.0	+4.1	+21	+33	+39	+37	+4	-0.8	+33	+2.2	-0.8	+0.5	-0.3	+30	+26
Top 95%	-9.9	-8.0	+2.4	+4.5	+18	+29	+34	+31	+3	-1.0	+31	+1.9	-1.0	+0.3	-0.4	+27	+23
Top 99%	-14.7	-11.7	+3.1	+5.4	+14	+24	+25	+23	+1	-1.5	+26	+1.4	-1.4	-0.1	-0.6	+21	+18
Low Value	-23.4	-17.3	+5.2	+6.7	+4	+8	-9	-16	-2	-3.0	+14	-0.5	-2.2	-1.6	-0.9	-2	+4

January 2021 BRITISH CHAROLAIS BREEDPLAN - Percentile Bands for all 2019 born animals

Use this table as a guide to compare individual animals with the current genetic level of the breed

	Calv-Ease		Birth		Growth					Fert	Carcase					Indexes	
	Direct	Dtrs	GL	Bwt	200d	400d	600d	Mwt	Milk	SS	Cwt	EMA	Fat	RBY	IMF	Termnl	Self
	%		days		kg					cm	kg	sq cm	mm	%		GBP	
High 1%	+17.3	+8.4	-1.2	-0.3	+45	+78	+93	+93	+16	+1.3	+69	+6.1	+0.5	+2.7	+0.5	+75	+69
High 5%	+12.2	+6.0	-0.5	+0.6	+40	+69	+82	+81	+14	+0.9	+61	+5.2	+0.2	+2.2	+0.3	+66	+61
High 10%	+9.7	+4.5	-0.2	+1.0	+37	+64	+76	+75	+13	+0.7	+57	+4.7	+0.1	+1.9	+0.2	+60	+56
High 15%	+8.3	+3.6	+0.0	+1.3	+35	+61	+73	+71	+12	+0.5	+55	+4.4	+0.0	+1.8	+0.1	+57	+53
High 20%	+7.2	+2.9	+0.1	+1.6	+34	+58	+69	+68	+12	+0.4	+53	+4.2	-0.1	+1.7	+0.1	+55	+51
High 25%	+6.2	+2.2	+0.2	+1.8	+33	+56	+67	+65	+11	+0.3	+51	+4.1	-0.2	+1.6	+0.1	+52	+49
High 30%	+5.3	+1.7	+0.4	+2.0	+32	+54	+64	+63	+10	+0.2	+49	+3.9	-0.2	+1.5	+0.0	+50	+46
High 35%	+4.3	+1.2	+0.5	+2.2	+31	+52	+62	+61	+10	+0.1	+48	+3.7	-0.3	+1.4	+0.0	+48	+45
High 40%	+3.4	+0.6	+0.6	+2.3	+30	+51	+60	+59	+9	+0.0	+46	+3.6	-0.3	+1.3	+0.0	+47	+43
High 45%	+2.6	+0.1	+0.7	+2.5	+29	+49	+58	+57	+9	+0.0	+45	+3.4	-0.4	+1.2	+0.0	+45	+41
50%	+1.8	-0.4	+0.8	+2.6	+29	+48	+57	+56	+9	-0.1	+44	+3.3	-0.4	+1.2	+0.0	+44	+40
Low 45%	+1.0	-0.9	+0.9	+2.8	+28	+46	+55	+54	+8	-0.2	+43	+3.2	-0.5	+1.1	-0.1	+42	+39
Low 40%	+0.3	-1.4	+1.1	+2.9	+27	+45	+53	+52	+8	-0.2	+42	+3.0	-0.5	+1.0	-0.1	+41	+37
Low 35%	-0.6	-2.0	+1.2	+3.1	+26	+43	+51	+50	+7	-0.3	+41	+2.9	-0.5	+1.0	-0.1	+39	+36
Low 30%	-1.5	-2.7	+1.3	+3.2	+25	+42	+49	+48	+7	-0.4	+39	+2.8	-0.6	+0.9	-0.1	+38	+34
Low 25%	-2.5	-3.3	+1.4	+3.4	+24	+40	+47	+46	+6	-0.5	+38	+2.7	-0.7	+0.8	-0.2	+37	+33
Low 20%	-3.6	-4.0	+1.5	+3.6	+23	+38	+45	+44	+6	-0.5	+37	+2.5	-0.7	+0.7	-0.2	+35	+31
Low 15%	-4.8	-5.0	+1.7	+3.8	+22	+37	+43	+41	+5	-0.7	+35	+2.4	-0.8	+0.6	-0.2	+34	+30
Low 10%	-6.4	-6.0	+1.9	+4.0	+21	+34	+40	+37	+4	-0.8	+34	+2.1	-0.9	+0.5	-0.3	+32	+28
Low 5%	-8.9	-7.8	+2.2	+4.4	+19	+31	+35	+33	+3	-1.0	+31	+1.8	-1.0	+0.3	-0.4	+29	+25
Low 1%	-14.1	-11.0	+3.0	+5.4	+14	+23	+26	+25	+1	-1.4	+26	+1.2	-1.3	-0.1	-0.6	+22	+19

British Charolais Myostatin Guide

What is Myostatin?

Myostatin is a gene that influences the production of proteins which control muscle development. When an animal is identified as having one of the mutations it means that they have inactive genes which do not control muscle growth as effectively, this can result in increased muscle mass. Currently in cattle, there are 19 known mutations of the gene and after extensive testing for the nine most common varients, we have concluded that the British Charolais cattle population only contains two - F94L & Q204X.

Why are we testing for Myostatin?

Knowing the myostatin status of your animals will help you to select bulls with the most appropriate myostatin traits for your breeding programme. This will lead to better calving ease and help with the ever-present trend to improve carcase conformation and quality. However, it is just one tool which should be used in conjunction with the wider information available such as Estimated Breeding Values (EBV's) – which predict the performance of the animal based on its back pedigree, accurate measurements and the performance of its herd mates – and your own judgement on type and pedigree.

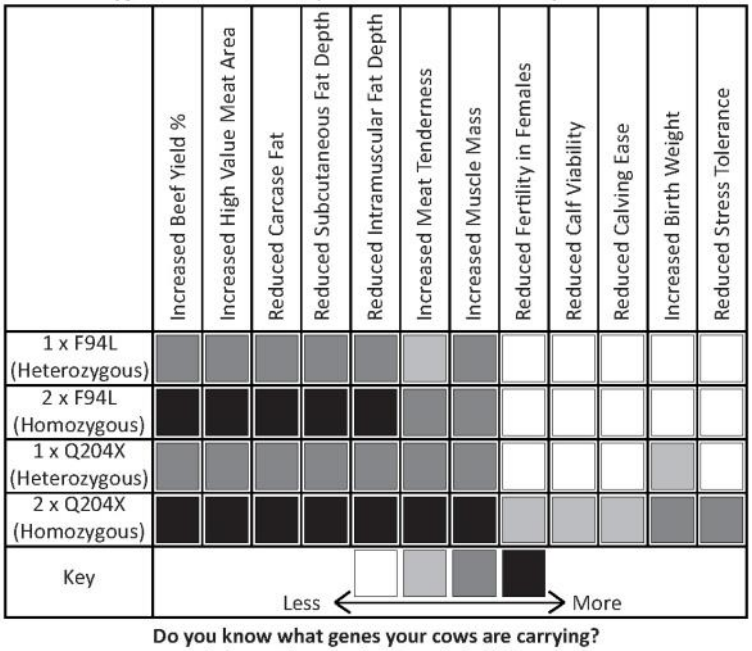
How are these genes inherited?

All reproducing species have two copies of each gene – called alleles. If your Charolais has one copy of the myostatin variant (one allele) it is classed as **heterozygous**, if it has two copies (two allele) it is classed as **homozygous**.

The table to below shows the chances of inheriting depending on the status of the parents:

2 Homozygous Parents	→	100% chance of Homozygous offspring
1 Homozygous Parent 1 Heterozygous Parent	→	50% chance of Homozygous offspring 50% chance of Heterozygous offspring
1 Homozygous Parent 1 Non-carrier Parent	→	100% chance of Heterozygous offspring
2 Heterozygous Parents	→	25% chance of Homozygous offspring 50% chance of Heterozygous offspring 25% chance of non-carrying offspring
1 Heterozygous Parent 1 Non-carrier Parent	→	50% chance of Heterozygous offspring 50% chance of non-carrying offspring
2 Non-carrier Parents	→	100% chance of non-carrying offspring

Below is a quick guide to the traits that are likely to be evident in homozygous and heterozygous calves born compared to calves with no myostatin:

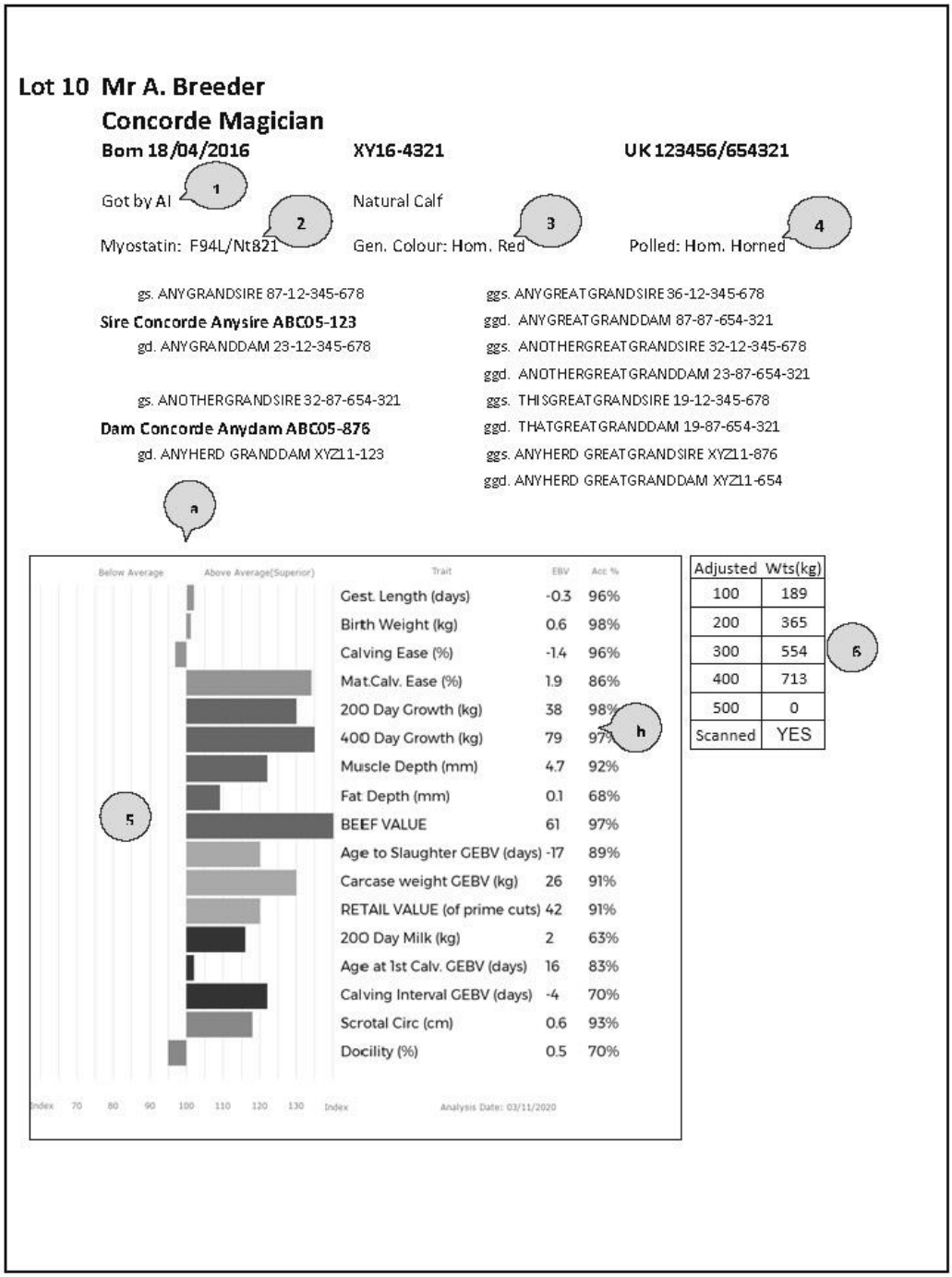


Do you know what genes your cows are carrying?
Don't forget that the bull is only half the story.

LIMOUSIN

HOW TO USE GENETIC INFORMATION IN THIS CATALOGUE

Sale catalogues contain specific information relating to the genetics of each animal. This is a short explanatory note to assist when selection decisions are being made.



1 Birth Type

'Got by AI' indicates whether the calf was a result of an AI service. If blank, the dam was naturally served. 'Natural calf' indicates the calf was born to its biological dam. 'ET calf' indicates the calf was born as a result of embryo transplant.

2 Myostatin

"Not tested" indicates that no Myostatin test is currently available for the animal. Full details on the Myostatin variants and their effects on performance can be found on the Limousin Society website www.limousin.co.uk, search in 'performance programmes'. In summary:

The Variants:

F94L	Animals with two copies of this gene (ie F94L/F94L) exhibit an increase in muscling (by up to 19%) with **no** associated increased in calving difficulty, lowered fertility or longevity and by far the majority of animals in the breed carry this gene. Heterozygous animals (those with one copy of the gene) also exhibit these characteristics but not to the same degree.
NT821	Animals with two copies of the gene (ie nt821/nt821) will exhibit characteristics of larger loin depths, reduced fat depths and large, rounded rump and thighs. However, unlike F94L, animals with two copies may also have slightly heavier birth weights bringing with it the potential for more difficult calvings, If animals are 'heterozygous' with F94L (ie F94L/nt821) they will still exhibit quality carcase characteristics but are less likely to be affected by more difficult calvings.
Q204X	Animals with two copies of the gene (ie Q204X/Q204X) will exhibit characteristics of larger loin depth, reduced fat cover and greater meat tenderness. However, they may also have the potential to exhibit larger birth weight and, if females, slightly reduced milking ability. Animals that are 'heterozygous' with F94L (ie F94L/Q204X) will still exhibit quality carcase characteristics but are less likely to be affected by larger birth weights and reduced milking ability.

Two further variants of Myostatin exist in the population but are relatively uncommon in their occurrence. Known as nt419 and E291X, their effects are similar to nt821 and Q204X respectively.

The recognised benefits of Myostatin are:

- ✓ **Increased Meat Yield –** by up to 19%.
- ✓ **More feed efficient**
- ✓ **Higher meat quality –** increased tenderness, reduced fat content, higher polyunsaturated fats

Using Myostatin information

An important factor to remember is that carcase traits (muscling, fat cover etc), calving traits and milk traits in cattle are controlled by MANY genes. Myostatin is only one of them and, as such, it is not an absolute predictor of an animal's performance.

A Myostatin genotype is a further bit of information that may help your decision, but it should be used in conjunction with wider information such as Estimated Breeding Values (EBVs), which bring together information of actual performance from the animal itself, its herdmates and its relatives to predict genetic merit, and your own judgment on type and pedigree.

3 Genetic Colour

Colour and polled/horned genes typically come in pairs called alleles. One is inherited from the sire and one from the dam. Where an animal's alleles are the same, it is said to be 'Homozygous' (Hom.) Where the alleles are different (because there is more than one variant of the gene, the animal is said to be 'Heterozygous' (Het.)

"Hom. Red" – animals will be red and will pass on red genes.

"Hom. Black" – animals will be black and will pass on black genes. All calves will be black, since black colour genes are dominant.

"Het. Black" – animals will be black and will pass on either a red or black gene.

"Het. Red" – animals will be red and will pass on a red gene or a colour gene known as the 'wild type' that is non-colour determinate. (The coat colour of calves inheriting the wild type gene will be governed by the gene they inherit from the other parent. It is rare, but it is also possible for an animal to be homozygous for the wild type gene, in which case they will be reddish/brown to brownish/black).

4 Genetics for Horned/Polled Status

A bull that is "Hom. Polled" - will be polled himself and all calves will be polled (since he only has polled genes to pass on and they are dominant).

A bull that is "Het. Polled" – will be polled himself and will produce some polled and some horned calves (assuming the cows are all horned).

A bull that is "Hom. Horned" – will be horned himself and will pass only horned genes to his calves.

For more information on both Genetic Colour and Polled/Horned, go to www.limousin.co.uk, search in 'performance programmes' or scan the QR code above.

5 Estimated Breeding Values and Genomic Estimated Breeding Values (EBVs & GEBVs)

EBVs & GEBVs are expressed in the same unit as the recorded trait (eg kgs for 400 Day Weight, mm for Muscle Depth etc) are relative to the Breed Average.

a) **In sale catalogues, Breed Average for each trait is represented by the vertical line that is central on the bar chart...** (a)

- ✓ Bars that lie to the right of that line indicate EBVs/GEBVs that are above average. The further to the right they lie, the higher above Breed Average they are.
- ✓ Equally, bars that lie to the left of the line indicate EBVs/GEBVs that are below Breed Average. The further to the left they are, the further below Breed Average they are.

b) Accuracy Values (Acc%) are expressed as a % and indicate the quantity and quality of records used to produce each EBV, GEBV or Index. The closer they are to 100%, the more accurate the EBV. Highly accurate values are less likely to change over time. (b)

c) The numeric EBV & GEBV values on the charts can be used to further refine comparison with the breed using the Breed Benchmark which is updated annually.

For more information on EBVs and GEBVs, go to www.limousin.co.uk and search under 'Breed Improvement' in the main menu or scan the QR code opposite.

EBV, GEBV and pedigree information on all Limousin cattle are just a few internet clicks away...

Step 1: Go to www.taurusdata.co.uk
Step 2: In the 'All Breeds Quick Search' box type the name or ear number of the animal you are interested in or click on the 'Breeder Search' button to look at all animals belonging to or bred by a particular breeder.

The site will then tell you the animal's owner/breeder details, its breeding values, its pedigree and list its progeny with full links to all of their information.

6 Adjusted Weights

These are the 'raw' weights recorded for the animal throughout its early growing stages. They are adjusted for age, but are not adjusted for any other factor such as management, nutrition, dam age, differences between farms etc.

For further information or if you have any query, please let us know - telephone 02476 696500, e-mail info@limousin.co.uk or speak to Society staff and Council members attending the sale.

2021 Limousin Breed Benchmark

Trait	Bottom			Breed	Top		
	1%	10%	25%	Average	25%	10%	1%
Gest. Length (days)	4	2	1	**-0**	-1	-2	-4
Birth Weight (kg)	3.1	2	1.4	**0.7**	0	-0.6	-1.7
Calving Ease (%)	-4.8	-3.1	-2.1	**-1**	0	1	2.7
Mat.Calv. Ease (%)	-1.7	-1	-0.6	**-0.1**	0.4	0.8	1.5
200 Day Growth (kg)	-13	-2	4	**12**	19	25	36
400 Day Growth (kg)	-23	-3	9	**22**	35	47	67
Muscle Depth (mm)	-1.9	-0.3	0.7	**1.7**	2.8	3.8	5.4
Fat Depth (mm)	-0.5	-0.3	-0.2	**-0**	0.1	0.2	0.4
BEEF VALUE	**LM7**	**LM17**	**LM22**	**LM28**	**LM34**	**LM40**	**LM49**
200 Day Milk (kg)	-4	-2	-1	**-0**	1	2	4
Age at first calf (days)*	48.8	35.2	27.2	**18.4**	9.6	1.7	-11.9
Calving interval (days)*	13.2	8.8	6.2	**3.3**	0.4	-2.2	-6.6
Longevity*	-0.17	-0.11	-0.07	**-0.04**	0	0.04	0.1
Calf Survival*	-0.04	-0.02	-0.02	**-0.01**	0	0.01	0.03
Scrotal Circ (cm)	-0.8	-0.4	-0.2	**0.1**	0.3	0.5	0.9
Docility (%)	-3.3	-1.3	-0	**1.3**	2.7	3.9	6
Age to slaughter (days)*	21	11	5	**-1**	-7	-13	-22
Carcase weight (kg)*	-6.3	0.6	4.7	**9.1**	13.6	17.6	24.5
Fillet (kg)*	0.09	0.13	0.15	**0.17**	0.2	0.22	0.25
Striploin (kg)*	0.05	0.16	0.22	**0.29**	0.37	0.43	0.54
Rump (kg)*	0.18	0.29	0.35	**0.42**	0.5	0.56	0.67
Topside (kg)*	0.53	0.78	0.93	**1.09**	1.25	1.4	1.66
Silverside (kg)*	0.61	0.89	1.05	**1.23**	1.41	1.57	1.85
Knuckle (kg)*	0.2	0.31	0.38	**0.45**	0.52	0.59	0.7
Retail Value*	**LM15R**	**LM22R**	**LM26R**	**LM31R**	**LM35R**	**LM40R**	**LM47R**

For Enquiries: The British Limousin Cattle Society Tel 02476 696500 Email info@limousin.co.uk

* Where animals have been genotyped, the breeding values for these traits will be Genomic Breeding Values (GEBVs). Publication of GEBVs is at animal owners' discretion. If an animal has not been genotyped, the breeding value will be a conventional Estimated Breeding Value (EBV). Whether a breeding value is an EBV or a GEBV is noted alongside each value.

Please note that EBVs and GEBVs are interchangeable for the same trait. For example, an animal with a Calving Interval GEBV can be directly compared to an animal with a Calving Interval EBV. A link to further information on all EBVs and GEBVs is below.

FOR INFORMATION

Breeding Indexes

EBVs can be combined in to selection indexes to meet wider breeding objectives…

Calving Value	An economic indicator of the collective value of Gestation Length and Calving Ease
Beef Value	An economic indicator of the collective value of Birth Weight, Calving Ease, 400-Day Growth, Muscle Depth and Backfat Depth
Retail Value	An economic indicator of the collective value of Fillet, Striploin, Rump, Topside, Silverside and Knuckle at 600 days of age and a standard carcase weight of 350kgs.

NB: Using Calving Ease and Maternal Calving Ease

Calving Ease EBV *Predicts how easy a bull's own calves will be born.*
Maternal Calving Ease EBV *Predicts how easily a bull's daughters will calve.*

To search the Limousin database by Breeder, by EBVs/GEBVs and/or by Individual Animal go to www.taurusdata.co.uk and click on 'Beef Search'

For more information on EBVs and GEBVs please go to www.limousin.co.uk and click on 'Performance Programmes' or get in touch on the numbers below.

Johne's Disease Risk Level Reminder - CHeCS

If you are looking to buy or sell stock it is important to know your own herd's Johne's disease risk level, as well as that of any cattle that you might add to your herd.

Level 1 – There have been at least three clear annual herd tests and there is a Johne's Disease herd health plan in place. This is the lowest level of risk

Level 2 – There has been at least one clear herd test but the herd does not yet qualify for Level 1 status. There is a Johne's disease herd health plan in place

Level 3 – Three per cent or less of the herd were identified as reactors at the most recent herd test. There is a Johne's disease herd health plan in place

Level 4 – More than three per cent of the herd were identified as reactors at the most recent herd test. There is a Johne's disease herd health plan in place

Level 5 – This includes herds without a health plan for Johne's disease, herds that not adhere to the mandatory elements of the health plan and herds that do not carry out the required testing. This is the highest level of risk

PLEASE NOTE: IMPORTANT RULE ABOUT BUYING AND SELLING AND RISK STATUS!

It is important to remember that if an animal of a lower risk level status is added to your herd, if it is ever sold on from your holding it must be sold as its original risk level status (i.e. **a Risk Level 3 animal added to a Risk Level 2 herd must remain as Risk Level 3 if sold again**).

However, animals added from a higher Risk Level Status herd to a lower Risk Level Status herd take on the status of the herd that they are added to and must be sold as such (i.e. **a Risk Level 1 animal added to a Risk Level 4 herd would then have to be sold as Risk Level 4 in the future**).

UNDERSTANDING THE BREEDPLAN PERFORMANCE RECORDING INFORMATION IN THIS CATALOGUE

Only British Simmental GROUP BREEDPLAN EBVs or INTERIM EBVs with Accuracy (Acc) can be validly compared between herds.

ESTIMATED BREEDING VALUES (EBVS)

The EBV is the best estimate of an animal's genetic merit for that trait and they are to be used as a tool to assist in the selection of sires, **the visual appearance remains very important.**

ACCURACY

An accuracy value is presented with every EBV and gives an indication of the amount of information that has been used in the calculation of that EBV. The higher the accuracy the lower the likelihood of change in the animal's EBV as more information is analysed for that animal or it's relatives.

CALVING EASE

Calving Ease EBVs are based on calving difficulty scores, birth weights and gestation length information. More positive EBVs are favourable and indicate easier calving.

DIR: Direct calving ease indicates how this animal influences the birth of its progeny.

Calving Ease (DIR) EBVs are estimates of genetic differences in the ability of a sire's calves to be born unassisted from **2 year old heifers.** The EBVs are reported as differences in the percentage of unassisted calvings.

Higher, more positive, Calving Ease (DIR) EBVs are more favourable. For example, a bull with an EBV of +5.0% would be expected, on average, to produce 3% fewer difficult calvings **from 2 year old heifers** than a bull with an EBV of –1.0% (6% difference between the sires, then halved as they only contribute half the genetics). **Cow condition is a significant factor on the ability and ease of calving.** Continued use of sires with easy calving may reduce the size of the cows and average pelvic area in the herd

DTRS: Daughter's calving ease indicates how well the animal produces daughters that have easier calving.

Calving Ease (DTRS) EBVs are estimates of genetic differences in the ability of a sire's daughters to calve at 2 years of age without assistance. The EBVs are also reported as differences in the percentage of unassisted calvings.

Higher, more positive, Calving Ease (DTRS) EBVs are more favourable. For example, a bull with an EBV of +4.0% would be expected to on average produce daughters that have 3% less calving problems when calving at 2 years of age than the daughters of a bull with an EBV of –2.0%.

BIRTH AND FERTILITY

GL: Gestation Length EBV (days) is based on AI records. Lower (negative) GL EBVs indicate shorter gestation lengths which generally relate to easier calving and increased growth after birth. For example, a bull with a Gestation Length EBV of –2 days would be expected to produce calves that are born earlier, and more easily, than a bull with a Gestation Length EBV of +2 days.

BWT: Birth Weight EBV (kg) is based on the measured birth weight of animals, adjusted for dam age. The lower the value the lighter the calf at birth and the lower the likelihood of a difficult birth. This is particularly

important when selecting sires for use over heifers. Birth Weight EBVs are expressed in kilograms (kg) and are calculated based on weights of calves taken at birth. Small, or moderate, Birth Weight EBVs are more favourable. For example, a bull with a Birth Weight EBV of +2 kg would be expected to produce lighter calves at birth than a bull with a Birth Weight EBV of +6 kg, with a lower risk of a difficult birth.

Please note, whilst low Birth Weight EBVs are favoured for calving ease they are also generally associated with lower overall growth potential. Consequently, birth weight and growth need to be carefully balanced. Fortunately, animals can be found that have both moderate Birth Weight EBVs and above average EBVs for later growth.

SS: Scrotal Size EBV (cm) is an indicator of male fertility in regards to semen quality and quantity.Higher (positive) EBVs indicate higher fertility. Increased scrotal circumference is associated with increased semen production in bulls, and earlier age at puberty of bull and heifer progeny. Increased scrotal circumference also has a favourable relationship with days to calving, such that bulls with larger scrotal circumference tend to have daughters with shorter days to calving. For example, a bull with a Scrotal Size EBV of +4 cm would be expected to produce sons with larger testicles at yearling age and daughters that reach puberty earlier than the progeny of a bull with a Scrotal Size EBV of -4 cm.

GROWTH

MILK: 200 Day Milk EBVs are estimates an animal's maternal effect on the 200 day weight of its calf. In the case of sires, this estimates the maternal effect that his daughters will have on the 200 day weight of their progeny. The 200 Day Milk EBV is expressed as kilograms (kg) of calf live weight at 200 days (ie. the expected difference in the weight of the calf at 200 days due to the maternal effect (milk) of the cow). The 200 Day Milk EBV is calculated by

partitioning the difference in the 200 day weight of calves into growth and milk components.

The optimum level of milk production potential among beef cows is dependent upon the production system and environment in which the cows are run. Selection for increased milk production may be warranted when cows are run under good nutritional conditions and calves are sold as weaners. However, some environments may not support high milking cows.

Larger, more positive, 200 Day Milk EBVs are generally more favourable, depending on the environment. For example, a bull with a 200 Day Milk EBV of +15 kg would be expected to sire daughters with higher milk production than a bull with 200 Day Milk EBV of +5 kg. This higher milk production potential should be reflected through higher weaning weights among the daughter's calves.

200: 200-Day Growth EBV (kg) is calculated from the weight of animals taken between 80 and 300 days of age. Values are adjusted to 200 days and for dam age. This EBV is the best single estimate of an animal's genetic merit for growth to early ages.

400: 400-Day Weight EBV (kg) is calculated from the weight of progeny taken between 301 and 500 days of age, adjusted to 400 days and for dam age. This EBV is the best single estimate of an animal's genetic merit for yearling weight.

600: 600-Day Weight EBV (kg) is calculated from the weight of progeny taken between 501 and 900 days of age, adjusted to 600 days and for dam age. This EBV is the best single estimate of an animal's genetic merit for growth beyond yearling age.

CARCASE

CWT: Carcase Weight EBV (kg) estimates the genetic difference in carcase weight at a standard age of 650 days.

EMA: Eye Muscle Area EBV (cm^2) estimates genetic differences in eye muscle area of a 300kg dressed carcase. More positive EBVs indicate better muscling on animals. Larger, more positive, EMA EBVs are generally more favourable. For example, a bull with an EMA EBV of +4 cm^2 would be expected to produce steer progeny with a greater degree of muscle expression than a bull with an EMA EBV of +1 cm^2.

RIB: Rib Fat EBV (mm) estimates the genetic differences in fat depth at the rib in a 300kg dressed carcase. More positive EBVs indicate more subcutaneous fat and earlier maturity.

RBY%: Retail Beef Yield Percent EBV (%) represents total (boned out) meat yield as a percentage of a 300kg dressed carcase. A more positive EBV indicates higher percentage yield for the 300kg carcase size.

Terminal Index

The BSCS Terminal index is aimed at a commercial herd using Simmental bulls over large framed, mixed breed cows to breed steers and heifers to turn off at 16 months of age. All progeny are destined for slaughter and no replacement females are selected from within the herd. There is some emphasis on calving ease while finishing steers at around 630 kg live weight (335 kg carcase weight) using a pasture based production system supplemented with extra rations during the finishing phase.

Use this index in a commercial herd to produce progeny for slaughter. The index has moderate emphasis on easier calving (ie getting a live calf with minimal human interference) while producing calves that will then grow quickly to market specifications at around 16 months of age. The index is focused on slaughter animals and does not account for maternal traits and is therefore not suited to breeding replacement females.

If you are using smaller framed cows or heifers in your herd, then you should also put extra emphasis on a higher calving ease direct EBV when selecting a sire using this index.

Self Replacing Index

The BSCS Self Replacing index is aimed at a Simmental herd selecting replacement females from within the herd while breeding steers and excess heifers to turn off at 16 months of age. There is emphasis on calving ease and maternal traits while also looking to finish steers for slaughter at around 680 kg live weight (350 kg carcase weight) using a pasture based production system supplemented with extra rations during the finishing phase.

This Self Replacing index is also suitable to using Simmental sires over mixed breed cows where replacement females are sourced from within the herd. There may be some hybrid vigour expressed in the progeny depending on the breed type of the cows used. Therefore you should consider placing extra emphasis on the Calving Ease EBVs (more positive) of the sire to allow for possible heavier birth weights of his calves due to hybrid vigour.

Use this index in both commercial and pedigree herds where you are balancing the requirements of selecting replacement females while also producing animals for slaughter.

The British Simmental GROUP BREEDPLAN Estimated Breeding Values contained in this Sale Catalogue were compiled by the Agricultural Business Research Institute (ABRI) from data supplied by the breeders. Neither the British Simmental Cattle Society nor the ABRI oversee or audit the collection of this data.

The British Simmental Cattle Society

Sale: THAINSTONE SALE 24TH FEBRUARY 2021 **Sale Date: 24-Feb-2021**

D.O.B	Age Days	Min WT	D.O.B	Age Days	Min WT	D.O.B	Age Days	Min WT
27/12/2019	425	645	20/07/2019	585	797	10/02/2019	745	941
22/12/2019	430	650	15/07/2019	590	801	05/02/2019	750	945
17/12/2019	435	655	10/07/2019	595	806	31/01/2019	755	950
12/12/2019	440	660	05/07/2019	600	810	26/01/2019	760	954
07/12/2019	445	665	30/06/2019	605	815	21/01/2019	765	959
02/12/2019	450	670	25/06/2019	610	819	16/01/2019	770	963
27/11/2019	455	675	20/06/2019	615	824	11/01/2019	775	968
22/11/2019	460	680	15/06/2019	620	828	06/01/2019	780	972
17/11/2019	465	685	10/06/2019	625	833	01/01/2019	785	977
12/11/2019	470	690	05/06/2019	630	837	27/12/2018	790	981
07/11/2019	475	695	31/05/2019	635	842	22/12/2018	795	986
02/11/2019	480	700	26/05/2019	640	846	17/12/2018	800	990
28/10/2019	485	705	21/05/2019	645	851	12/12/2018	805	995
23/10/2019	490	710	16/05/2019	650	855	07/12/2018	810	999
18/10/2019	495	715	11/05/2019	655	860	02/12/2018	815	1004
13/10/2019	500	720	06/05/2019	660	864	27/11/2018	820	1008
08/10/2019	505	725	01/05/2019	665	869	22/11/2018	825	1013
03/10/2019	510	729	26/04/2019	670	873	17/11/2018	830	1017
28/09/2019	515	734	21/04/2019	675	878	12/11/2018	835	1022
23/09/2019	520	738	16/04/2019	680	882	07/11/2018	840	1026
18/09/2019	525	743	11/04/2019	685	887	02/11/2018	845	1031
13/09/2019	530	747	06/04/2019	690	891	28/10/2018	850	1035
08/09/2019	535	752	01/04/2019	695	896	23/10/2018	855	1040
03/09/2019	540	756	27/03/2019	700	900	18/10/2018	860	1044
29/08/2019	545	761	22/03/2019	705	905	13/10/2018	865	1049
24/08/2019	550	765	17/03/2019	710	909	08/10/2018	870	1053
19/08/2019	555	770	12/03/2019	715	914	03/10/2018	875	1058
14/08/2019	560	774	07/03/2019	720	918	28/09/2018	880	1062
09/08/2019	565	779	02/03/2019	725	923	23/09/2018	885	1067
04/08/2019	570	783	25/02/2019	730	927	18/09/2018	890	1071
30/07/2019	575	788	20/02/2019	735	932	13/09/2018	895	1076
25/07/2019	580	792	15/02/2019	740	936	08/09/2018	900	1080

Understanding the new EBV Graph

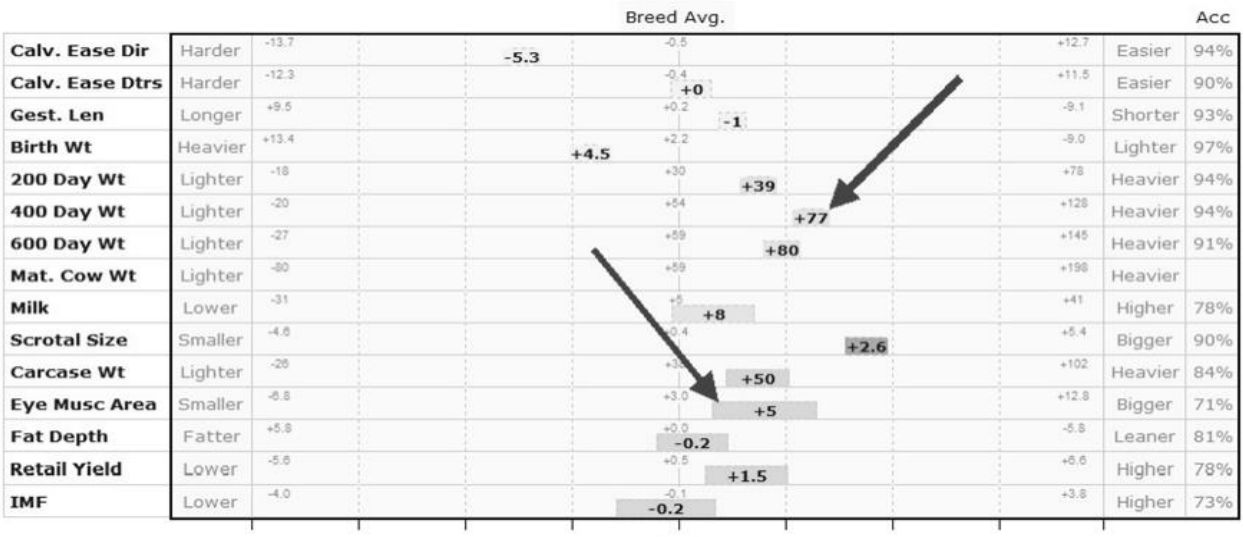
The BSCS is moving to a new graph for pen cards for all animals at Society sales. The new graph has been available for sometime as part of the Breedplan package used for performance recording and includes more detailed information on individual EBV values compared to the old graph. The new graph allows the buyer to see clearly where the animal's individual traits fall in relation to breed average and also include the accuracy value.

Of course, as the EBV takes into account all the pedigree and performance information that is available at this point in time, the EBV is also the most reliable indication available of the animals breeding value for each trait at this point in time.

Within the display of the EBV Graph:

- The actual EBV Accuracy for each trait is shown at the right side of the graph.
- The Breed Avg values are listed in the centre of the graph and reflect the average EBV's of current animals within the breed (ie. all 2 year old animals).
- The minimum and maximum EBV values are displayed at the left and right of the graph for each trait represented
- The horizontal bar (shaded/coloured area) displays where the animal is placed in relation to the current animals within the breed for each trait.
- As an illustration of the interpretation of the EBV graph, in the example below the animals 400 Day Wt EBV is of higher accuracy than the Eye Muscle Area EBV (because it's horizontal bar is much narrower) and so there is less possible change in the 400 Day Wt EBV as additional information becomes available. Conversely, the EMA EBV may change when additional information becomes available.

EBV Graph for OMORGA VOLVO



January 2021 Simmental BREEDPLAN - Percentile Bands for all 2019 born animals

Use this table as a guide to compare individual animals with the current genetic level of the breed

	Calv-Ease		Birth		Growth					Fert	Carcase					Indexes	
	Dir	Dtrs	GL	Bwt	200	400	600	Mwt	Milk	SS	Cwt	EMA	Fat	RBY	IMF	TI	SRI
	%		days		kg					cm	kg	sq.cm	mm	%		GBP	
High 1%	+7.9	+5.7	-2.3	-0.9	+48	+91	+97	+101	+13	+1.9	+66	+6.2	+1.2	+2.6	+0.5	+113	+130
High 5%	+5.4	+3.7	-1.5	+0.3	+44	+81	+87	+90	+10	+1.4	+59	+5.4	+0.7	+2.0	+0.3	+101	+112
High 10%	+3.9	+2.8	-1.1	+0.8	+41	+76	+82	+84	+9	+1.2	+55	+5.0	+0.5	+1.7	+0.2	+93	+104
High 15%	+3.0	+2.2	-0.9	+1.2	+40	+72	+78	+80	+8	+1.0	+52	+4.8	+0.4	+1.5	+0.1	+89	+99
High 20%	+2.3	+1.8	-0.7	+1.4	+38	+70	+75	+77	+8	+0.9	+51	+4.6	+0.3	+1.4	+0.1	+86	+95
High 25%	+1.7	+1.4	-0.6	+1.7	+37	+68	+73	+75	+7	+0.8	+49	+4.4	+0.2	+1.2	+0.0	+83	+92
High 30%	+1.2	+1.0	-0.4	+1.9	+36	+66	+71	+73	+7	+0.8	+48	+4.3	+0.2	+1.1	+0.0	+81	+90
High 35%	+0.7	+0.8	-0.3	+2.1	+35	+64	+70	+71	+7	+0.7	+47	+4.2	+0.1	+1.0	+0.0	+79	+88
High 40%	+0.3	+0.5	-0.2	+2.2	+34	+63	+68	+69	+6	+0.6	+46	+4.0	+0.0	+0.9	+0.0	+77	+86
High 45%	-0.1	+0.2	-0.1	+2.4	+34	+62	+67	+67	+6	+0.6	+45	+3.9	+0.0	+0.9	-0.1	+75	+84
50%	-0.6	-0.1	+0.0	+2.6	+33	+60	+65	+66	+6	+0.5	+44	+3.8	-0.1	+0.8	-0.1	+74	+82
Low 45%	-1.0	-0.3	+0.1	+2.7	+32	+59	+64	+64	+5	+0.5	+43	+3.7	-0.2	+0.7	-0.1	+72	+80
Low 40%	-1.5	-0.6	+0.2	+2.9	+32	+58	+62	+63	+5	+0.4	+42	+3.6	-0.2	+0.6	-0.2	+70	+78
Low 35%	-2.0	-0.9	+0.3	+3.0	+31	+56	+61	+61	+4	+0.4	+41	+3.5	-0.3	+0.5	-0.2	+69	+76
Low 30%	-2.5	-1.3	+0.4	+3.2	+30	+55	+59	+59	+4	+0.3	+40	+3.3	-0.4	+0.5	-0.2	+67	+74
Low 25%	-3.0	-1.7	+0.6	+3.4	+29	+54	+58	+58	+4	+0.2	+39	+3.2	-0.5	+0.4	-0.3	+65	+72
Low 20%	-3.6	-2.1	+0.7	+3.6	+28	+52	+56	+55	+3	+0.2	+38	+3.1	-0.6	+0.3	-0.3	+63	+70
Low 15%	-4.4	-2.6	+0.8	+3.8	+27	+50	+54	+53	+3	+0.1	+36	+3.0	-0.7	+0.2	-0.4	+61	+67
Low 10%	-5.3	-3.1	+1.0	+4.2	+26	+48	+52	+50	+2	+0.0	+34	+2.8	-0.8	+0.0	-0.4	+57	+64
Low 5%	-6.8	-4.0	+1.3	+4.7	+24	+44	+48	+45	+0	-0.2	+32	+2.5	-1.0	-0.2	-0.6	+52	+58
Low 1%	-10.2	-5.6	+1.9	+5.7	+18	+34	+37	+34	-2	-0.5	+25	+1.9	-1.5	-0.5	-0.8	+41	+44

UNDERSTANDING THE BREEDPLAN PERFORMANCE RECORDING INFORMATION IN THIS CATALOGUE

Only Aberdeen-Angus GROUP BREEDPLAN EBVs or INTERIM EBVs with Accuracy (Acc) can be validly compared between herds.

ESTIMATED BREEDING VALUES (EBVS)

The EBV is the best estimate of an animal's genetic merit for that trait.

ACCURACY

An accuracy value (Acc) is presented with every EBV and gives an indication of the amount of information that has been used in the calculation of that EBV. The higher the accuracy the lower the likelihood of change in the animal's EBV as more information is analysed for that animal or its relatives.

CALVING EASE

Calving Ease EBVs are based on calving difficulty scores, birth weights and gestation length information. More positive EBVs are favourable and indicate easier calving.

DIR: Direct calving ease indicates how this animal influences the birth of its progeny. Using a bull in the Top 1% for CE direct (+6.3) is predicted to result in approximately 15% fewer assisted calvings in 2 year old heifers compared with using a bull in the Bottom 1% (-10.0). This range is predicted to be smaller in cows. **Remember that the dam's genetics and management are significant factors influencing calving ease in any mating.**

DTRS: Daughter's calving ease indicates how well the animal produces daughters that have easier calving.

BIRTH AND FERTILITY

GL: Gestation Length EBV (days) is based on AI records. Lower (negative) GL EBVs indicate shorter gestation lengths which generally relate to easier calving and increased growth after birth.

BWT: Birth Weight EBV (kg) is based on the measured birth weight of animals, adjusted for dam age. The lower the value the lighter the calf at birth and the lower the likelihood of a difficult birth. This is particularly important when selecting sires for use over heifers.

SS: Scrotal Size EBV (cm) is an indicator of male fertility in regards to semen quality and quantity. Higher (positive) EBVs indicate higher fertility. There is also a small negative correlation with age of puberty in female progeny.

GROWTH

MILK: 200-Day Milk EBV (kg) is an estimate of an animal's milking ability. For sires, this EBV is indicative of their daughter's milking ability as it affects the 200-day weight of their calves.

200: 200-Day Growth EBV (kg) is calculated from the weight of animals taken between 80 and 300 days of age. Values are adjusted to 200 days and for dam age. This EBV is the best single estimate of an animal's genetic merit for growth to early ages.

400: 400-Day Weight EBV (kg) is calculated from the weight of progeny taken between 301 and 500 days of age, adjusted to 400 days and for dam age. This EBV is the best single estimate of an animal's genetic merit for yearling weight.

600: 600-Day Weight EBV (kg) is calculated from the weight of progeny taken between 501 and 900 days of age, adjusted to 600 days and for dam age. This EBV is the best single estimate of an animal's genetic merit for growth beyond yearling age.

MWT: Mature Cow Weight EBV (kg) is an estimate of the genetic difference in cow weight at 5 years of age. Smaller, or more moderate EBVs are generally more favourable.

CARCASE

CWT: Carcase Weight EBV (kg) estimates the genetic difference in carcase weight at a standard age of 650 days.

EMA: Eye Muscle Area EBV (cm^2) estimates genetic differences in eye muscle area of a 300kg dressed carcase. More positive EBVs indicate better muscling on animals.

FAT: Rib Fat EBV (mm) estimates the genetic differences in fat depth at the rib in a 300kg dressed carcase. More positive EBVs indicate more subcutaneous fat and earlier maturity.

RBY%: Retail Beef Yield Percent EBV (%) represents total (boned out) meat yield as a percentage of a 300kg dressed carcase. A more positive EBV indicates higher percentage yield for the 300kg carcase size.

IMF%: Intra-muscular Fat Percent EBV (%) is an estimate of the genetic difference in the percentage of intra-muscular fat at the 12/13th rib site in a 300kg carcase. Depending on market targets, larger more positive values are generally more favourable.

Indexes combine the EBVs with economic information for specific market and production systems to rank animals based on relative profit values.

Terminal index

The Angus Terminal index is aimed at a commercial herd using Angus bulls over dairy cross cows to breed steers and heifers to turn off at 16 months of age. All progeny are destined for slaughter and no replacement females are selected from within the herd. There is some emphasis on calving ease while finishing steers at around 600 kg live weight (330 kg carcase weight) using a pasture based production system.

Use this index in a commercial herd to produce progeny for slaughter. The index has moderate emphasis on easier calving (ie getting a live calf with minimal human interference) while producing calves that will then grow quickly to market specifications at around 16 months of age. The index is focused on slaughter animals and does not account for maternal traits and is therefore not suited to breeding replacement females.

If you are using smaller framed cows or heifers in your herd, then you should also put extra emphasis on a higher Calving Ease Direct EBV when selecting a sire using this index.

Self Replacing index

The Angus Self Replacing index is aimed at an Angus herd selecting replacement females from within the herd while breeding steers and excess heifers to turn off at 18 months of age. There is emphasis on calving ease and maternal traits while also looking to finish steers for slaughter at around 615 kg live weight (330 kg carcase weight) using a pasture based production system supplemented with extra rations during the finishing phase.

This Self Replacing index is also suitable to using Angus sires over mixed breed cows where replacement females are sourced from within the herd. There may be some hybrid vigour expressed in the progeny depending on the breed type of the cows used. Therefore you should consider placing extra emphasis on the Calving Ease EBVs (more positive) of the sire to allow for possible heavier birth weights of his calves due to hybrid vigour.

Use this index in both commercial and pedigree herds where you are balancing the requirements of selecting replacement females while also producing animals for slaughter.

The Aberdeen-Angus GROUP BREEDPLAN Estimated Breeding Values contained in this Sale Catalogue were compiled by the Agricultural Business Research Institute (ABRI) from data supplied by the breeders. Neither the Aberdeen-Angus Cattle Society nor the ABRI oversee or audit the collection of this data.

THE ABERDEEN ANGUS CATTLE SOCIETY

Aberdeen-Angus
Percentile Bands for 2019 Born Calves

rcentile Band	Calving Ease DIR (%)	Calving Ease DTRS (%)	Gestation Length (days)	Birth Wt. (kg)	200 Day Wt (kg)	400 Day Wt (kg)	600 Day Wt (kg)	Mat Cow Wt (kg)	Milk (kg)	Scrotal Size (cm)	Carcase Wt (kg)	Eye Muscle Area (sq cm)	Fat Depth (mm)	Retail Beef Yield (%)	IMF (%)	Terminal Index	Self Replacing Index
Top Value	+10.5	+8.4	-5.5	-4.8	+73	+131	+159	+163	+32	+4.0	+109	+11.4	+2.9	+5.1	+1.6	+67	+87
Top 1%	+6.3	+4.7	-2.5	-0.8	+59	+108	+130	+126	+23	+2.5	+86	+7.6	+0.8	+2.8	+0.8	+51	+68
Top 5%	+4.1	+3.4	-1.4	+0.8	+54	+97	+118	+113	+19	+2.0	+77	+6.3	+0.0	+2.2	+0.6	+46	+61
Top 10%	+2.9	+2.7	-0.9	+1.4	+50	+91	+111	+106	+18	+1.8	+73	+5.7	-0.3	+1.9	+0.4	+43	+57
Top 15%	+2.2	+2.3	-0.6	+1.7	+48	+87	+107	+101	+16	+1.6	+69	+5.3	-0.4	+1.7	+0.4	+41	+54
Top 20%	+1.6	+1.9	-0.3	+2.0	+47	+84	+103	+98	+15	+1.5	+67	+5.0	-0.6	+1.6	+0.3	+40	+52
Top 25%	+1.1	+1.6	-0.1	+2.2	+45	+81	+100	+94	+15	+1.4	+65	+4.7	-0.7	+1.5	+0.3	+39	+50
Top 30%	+0.6	+1.3	+0.0	+2.4	+44	+79	+97	+91	+14	+1.3	+63	+4.5	-0.8	+1.4	+0.2	+37	+49
Top 35%	+0.1	+1.0	+0.2	+2.6	+43	+77	+94	+89	+13	+1.2	+61	+4.3	-0.9	+1.3	+0.2	+36	+47
Top 40%	-0.3	+0.8	+0.3	+2.8	+42	+75	+92	+86	+13	+1.2	+59	+4.1	-1.1	+1.2	+0.2	+35	+46
Top 45%	-0.7	+0.5	+0.5	+3.0	+41	+72	+89	+84	+12	+1.1	+57	+3.9	-1.2	+1.1	+0.1	+34	+44
Top 50%	-1.1	+0.3	+0.6	+3.2	+40	+71	+87	+82	+11	+1.0	+56	+3.7	-1.3	+1.0	+0.1	+33	+43
Top 55%	-1.5	+0.1	+0.7	+3.4	+38	+68	+84	+79	+11	+1.0	+54	+3.5	-1.4	+0.9	+0.1	+32	+42
Top 60%	-1.9	-0.2	+0.8	+3.6	+37	+66	+82	+77	+10	+0.9	+52	+3.4	-1.5	+0.8	+0.1	+31	+41
Top 65%	-2.4	-0.5	+0.9	+3.8	+36	+64	+80	+75	+10	+0.8	+50	+3.2	-1.6	+0.7	+0.0	+30	+39
Top 70%	-2.9	-0.8	+1.1	+4.0	+35	+62	+77	+72	+9	+0.7	+49	+3.0	-1.8	+0.6	+0.0	+29	+38
Top 75%	-3.4	-1.1	+1.2	+4.2	+34	+59	+74	+69	+8	+0.6	+46	+2.8	-1.9	+0.5	+0.0	+27	+36
Top 80%	-4.0	-1.5	+1.3	+4.5	+32	+56	+70	+66	+8	+0.6	+44	+2.6	-2.1	+0.4	-0.1	+26	+34
Top 85%	-4.7	-1.9	+1.5	+4.8	+30	+53	+67	+63	+7	+0.4	+41	+2.4	-2.3	+0.4	-0.1	+24	+32
Top 90%	-5.7	-2.5	+1.7	+5.1	+28	+49	+62	+58	+6	+0.3	+38	+2.1	-2.5	+0.2	-0.2	+22	+30
Top 95%	-7.2	-3.4	+20.	+5.7	+24	+41	+53	+50	+4	+0.1	+32	+1.8	-2.9	+0.1	-0.3	+19	+26
Top 99%	-10.0	-5.0	+2.6	+6.9	+17	+27	+34	+32	+0	-0.4	+20	+1.3	-3.6	-0.3	-0.5	+13	+17
Low Value	-18.2	-9.6	+5.6	+11.4	-9	-17	-24	-23	-11	-2.0	-17	-1.3	-5.5	-1.7	-1.4	-7	-6

All bulls entered at official Society sales have their Myostatin status displayed in the catalogue.
The Myostatin nt821 gene is responsible for double muscling.
Myostatin Status No Carrier, means the bull does not carry the Myostatin nt821 gene.
Myostatin Status Single Version Carrier means the bull carries a single version of the Myostatin nt821 gene, but still accepted for registration by the Aberdeen-Angus Cattle Society

CHAROLAIS SOCIETY SALE HERD HEALTH REPORT

PENS

MR S A ALLAN — **(INVERDEN) (8600) GORYHILL, GLENKINDIE, ALFORD** — **381**

- Herd last tested clear from TB in 2018
- Currently on a 4 year TB testing interval
- Member of HI Health Herdcare (NE:Biobest)
- Herd testing for BVD
- Routinely vaccinating against BVD since 2020
- Using Bovela
- Johnes Status Risk Level - 1

R & N BARCLAY — **(HARESTONE) (4037) SOUTH ROAD, INSCH** — **331, 332, 333, 334**

- Herd last tested clear from TB in 2020
- Currently on a 4 year TB testing interval
- Member of SRUC Premium Cattle Health Scheme
- Herd testing for BVD
- Routinely vaccinating against BVD since 2020
- Using Bovela
- Johnes Status Risk Level - 3

AJR FARMS — **(NEWLOGIE) (9004) MILTON OF COLLIESTON, ELLON** — **391 392**

- Herd last tested clear from TB in 2019
- Currently on a 4 year TB testing interval
- Member of SRUC Premium Cattle Health Scheme
- Accredited free from BVD
- Routinely vaccinating against BVD since 2020
- Using Bovilis BVD
- Monitored free Lepto
- Johnes Status Risk Level - 1

MESSRS R IRVINE & F G LAWSON — **(BALLINDALLOCH) (6652) MAINS OF INVEROURIE, GLENLIVET, BALLINDALLOCH** — **349**

- Herd last tested clear from TB in 2020
- Currently on a 2 year TB testing interval
- Member of HI Health Herdcare (NE:Biobest)
- Accredited free from BVD
- Routinely vaccinating against BVD since 2020
- Using Bovilis BVD
- Johnes Status Risk Level - 4

MR R LEGGAT — **(BONNYKELLY) (4569) MORMOND PROP., NEW PITSLIGO** — **383, 384, 385**

- Herd last tested clear from TB in 2017
- Currently on a 4 year TB testing interval
- Member of HI Health Herdcare (NE:Biobest)
- Accredited free from BVD
- Routinely vaccinating against BVD since 2020
- Using Bovilis BVD
- Johnes Status Risk Level - 1

MR K MALLARKEY — **(STRATHYS) (6949) AIRDLIN MAINS, YTHANBANK, ELLON** — **351, 352**

- Herd last tested clear from TB in 2017
- Currently on a 4 year TB testing interval
- Member of HI Health Herdcare (NE:Biobest)
- Accredited free from BVD
- Routinely vaccinating against BVD since 2020
- Using Bovilis BVD

Declaration notes : Johnes results pending

CHAROLAIS SOCIETY SALE HERD HEALTH REPORT

PENS

MR M J MASSIE **(ELRICK) (6835) MAINS OF ELRICK, AUCHNAGATT, ELLON** **343, 344**

- Herd last tested clear from TB in 2020
- Currently on a 4 year TB testing interval
- Member of HI Health Herdcare (NE:Biobest)
- Accredited free from BVD
- Routinely vaccinating against BVD since 2020
- Johnes Status Risk Level - 1

MR C M MCCOMBIE **(AUCHINCRIEVE) (3770) AUCHINCRIEVE, KNOCK, HUNTLY** **394, 395**

- Currently TB Exempt
- Member of HI Health Herdcare (NE:Biobest)
- Accredited free from BVD
- Routinely vaccinating against BVD since 2021
- Using Bovilis BVD
- Herd testing for IBR
- Herd testing for Lepto
- Johnes Status Risk Level - 1

W & N MILNE **(GLENERNAN) (6996) ERNAN, WATERSIDE, STRATHDON** **387, 388, 389**

- Herd last tested clear from TB in 2020
- Currently on a 4 year TB testing interval
- Member of HI Health Herdcare (NE:Biobest)
- Accredited free from BVD
- Routinely vaccinating against BVD since 2020
- Using Bovilis BVD
- Johnes Status Risk Level - 2

J A WILSON & SONS **(KINCLUNE) (2326) KINCLUNE, GLENKINDIE, ALFORD** **376, 377, 378 379, 380**

- Herd last tested clear from TB in 2018
- Currently on a 4 year TB testing interval
- Member of HI Health Herdcare (NE:Biobest)
- Herd testing for BVD
- Routinely vaccinating against BVD since 2020
- Using Bovela
- Johnes Status Risk Level - 1

LIMOUSIN SOCIETY SALE HERD HEALTH REPORT

Vendors' Index

The pedigree, performance, DNA, health information and footnotes included in Society sale catalogues is as supplied by, or on behalf of the vendor. The responsibility for the accuracy of the information therefore rests solely with the vendor and not with the British Limousin Cattle Society Ltd (BLCS). It should be noted that the Estimated Breeding Values for all animals change over time, as new performance records come available. While the BLCS and Genesure Ltd seek to ensure that the information contained in catalogues is accurate at the time of printing in accordance with their terms and conditions, no warranty is given in respect thereof by the BLCS and, to the maximum extent permitted by law, the BLCS shall have no liability for any loss, damage or injury howsoever caused (including that caused by negligence) or suffered directly or indirectly in relation to information and opinions contained in or omitted from this publication. Genesure Ltd's liability is limited to the extent set out in its terms and conditions (a copy is available from the BLCS office upon request).

		PENS
BARCLAY, NR	**HARESTONE (UK 521516) SOUTH ROAD, INSCH** - Consigned from a 4-years TB testing interval holding - Johne`s Risk Level 3 - Member of a CHeCS controlled health scheme for Johnes - Accredited free for BVD - Tested Virus free for BVD - Routinely vaccinating against BVD	**335, 336, 337**
CRUIKSHANK, W F	**CLURY (UK 500815) CLURY FARM, DULNAIN BRIDGE, INVERNESS** - Consigned from a 4-years TB testing interval holding - Johne`s Risk Level 3 - Member of a CHeCS controlled health scheme for BVD & Johnes - Accredited free for BVD - Routinely vaccinating against BVD	**288**
MASSIE, M J	**ELRICK (UK 520735) MAINS OF ELRICK, AUCHNAGATT, ELLON** - Consigned from a 4-years TB testing interval holding - Johne`s Risk Level 1 - Member of a CHeCS controlled health scheme for BVD & Johnes - Accredited free for BVD	**345, 346, 347**
PENNY, J	**SHANNAS (UK 520782) SHANNAS, MINTLAW, PETERHEAD** - Consigned from a 4-years TB testing interval holding - Johne`s Risk Level1 - Member of a CHeCS controlled health scheme for BVD - Accredited free for BVD - Routinely vaccinating against BVD	**290**
ROBERTSON & SON, W	**FODDERLETTER (UK 522637) FODDERLETTER FARMS, BALLINDALLOCH** - Consigned from a 4-years TB testing interval holding - Johne`s Risk Level 2 - Member of a CHeCS controlled health scheme for BVD & Johnes - Accredited free for BVD - Routinely vaccinating against BVD	**340, 341**
WALKER, P A	**WALKERS (UK 523060) EASTERSIDE, DUNNOTTAR, STONEHAVEN** - Consigned from a 4-years TB testing interval holding - Johne`s Risk Level1 - Member of a CHeCS controlled health scheme for BVD & Johnes - Accredited free for BVD - Routinely vaccinating against BVD	**299, 300, 301, 302, 303** **304, 305**

Disclaimer: The health information above is as supplied by or on behalf of the breeder at the time of the catalogue going to print. The responsibility for the accuracy of the information rests solely with the breeder and not **The Limousin Cattle Society Limited, or Aberdeen and Northern Marts.**

THE BRITISH SIMMENTAL CATTLE SOCIETY
SALE HERD HEALTH REPORT

Sale No: 351 **(Stud Prefix) Address** **PENS**

MESSRS C & M BRUCE **(TILLYEVE) (BRU02) TILLYEVE, UDNY, ELLON** **292, 293, 294**

Member Id: BRU02

- Herd last tested clear from TB in 2020
- Currently on a 4 year TB testing interval
- Member of HI Health
- Accredited free from BVD since 2009
- Routinely vaccinating against BVD
- Compulsory BVD Vaccination Dates for Sale Animals - Males 16/12/20 and 16/01/21
- Routinely vaccinating against IBR
- Using Rispoval IBR-Marker Activated
- Routinely vaccinating against Lepto
- SPIROVAC
- Johnes Status Risk Level - 3

MR D C HOULDEY **(MANOR PARK) (HOU07) KIRTLETON HOUSE, WATERBECK, LOCKERBIE** **297**

Member Id: HOU07

- Herd last tested clear from TB in 2020
- Currently on a 4 year TB testing interval
- Member of SAC Premium Cattle Health Scheme
- Herd testing for BVD since 2016
- Vaccinated monitored Free
- Routinely vaccinating against BVD
- Using Bovilis BVD
- Show animals only
- Compulsory BVD Vaccination Dates for Sale Animals - Males 09/12/20 and 08/01/21
- Johnes Status Risk Level - 3

Declaration notes : VMF for BVD

MR W S STRONACH **(ISLAVALE) (STR02) BERRYLEYS FARM, GRANGE, KEITH, AB55 6LN** **307, 308**

Member Id: STR02

- Herd last tested clear from TB in 2018
- Currently on a 4 year TB testing interval
- Member of HI Health
- Accredited free from BVD since 2008
- Herd testing for BVD since 2007
- Routinely vaccinating against BVD
- Using Bovela
- Compulsory BVD Vaccination Dates for Sale Animals - Males 18/12/20
- Herd testing for IBR since 2014
- Routinely vaccinating against IBR (Females Only)
- Using Rispoval IBR-Marker Inactivated
- Johnes Status Risk Level - 1 ,since 2008

Declaration notes : Sale animals have all been individually tested clear of IBR and not vaccinated

THE ABERDEEN ANGUS CATTLE SOCIETY
SALE HERD HEALTH REPORT

	Sale No: 582 **(Stud Prefix) Address**	**PENS**
MR RAY GARDINER & MR CRAIG SMART	**(NEWTON MUCHALLS) NEWTON HOLDINGS, NEWTON SMIDDY, LYNE OF SKENE** - Herd last tested clear from TB in 2020 - Currently on a 4 year TB testing interval - Member of SAC Premium Cattle Health Scheme - Accredited free from BVD - BVD Accredited for one year only - Routinely vaccinating against BVD - Accredited free from IBR - Lepto controlled - Johnes Risk Status Level 1	**266, 267**
MESSRS N F MASSIE & SONS	**(BLELACK) (PER NEIL F MASSIE ESQ OBE), BLELACK FARM, DINNET** - Herd last tested clear from TB in 2020 - Currently on a 4 year TB testing interval - Member of Biobest Herdcare - Accredited free from BVD - Routinely vaccinating against BVD - Johnes Risk Status Level 2	**274**
KARL SCOTT ESQ	**(FOGGIE) FOGGIE FARM, SOUTH BROWNHILL, TURRIFF** - Herd last tested clear from TB in 2016 - Currently on a 4 year TB testing interval - Member of Biobest Herdcare - Accredited free from BVD - Herd testing for BVD - Routinely vaccinating against BVD - Herd testing for IBR - Accredited free from Lepto - Herd testing for Lepto - Johnes Risk Status Level 2	**269, 270, 271, 272**

Disclaimer: The health information above is supplied by or on behalf of the breeder. The health status of individual animals may differ from the herd declaration. For the most up to date health status check the pen card above the animal. **The responsibility for the accuracy of the information rests solely with the breederand not The Aberdeen-Angus Cattle Society, or Aberdeen and Northern Marts**

BRITISH BLUE CATTLE SALE HERD HEALTH REPORT

		PENS
R & N BARCLAY	**C/O SOUTH ROAD, INSCH** -A member of SAC Premium Health Scheme. -TB – Testing interval 4 years. -BVD – Accredited free and herd testing. Vaccinated with Bovella 17/12/2020. -Johnes risk level 3.	**338**

Disclaimer: The health information above is as supplied by or on behalf of the breeder at the time of the catalogue going to print. The responsibility for the accuracy of the information rests solely with the breeder and not **The British Blue Cattle Society or Aberdeen and Northern Marts.**

CHAROLAIS BULLS

Lot **W & N MILNE** **WITHDRAWN**

1 **GLENERNAN PEDRO** **DNA Status: SV**

MBM0079021 **Born 01/01/2019** **UK520402701317**

Myostatin: F94L-0 , Q204X-0

gs. BLELACK BLACKBERET (MBM0026850)

Sire - ELGIN JAGGER (MBM0063998)

gd. ELGIN FLORENCE (MBF0046788)

gs. MISTRAL BEN (MBM0025469)

Dam - GLENERNAN FUSION (MBF0049055)

gd. GLENERNAN VENUS (MBF0016167)

NOTES: By easy calving sire Elgin Jagger.

	January 2021 BRITISH CHAROLAIS BREEDPLAN							
	Calving Ease Dir. (%)	Calving Ease Dtrs (%)	Gest. Len. (days)	Birth Wt. (kg)	200 Day Wt (kg)	400 Day Wt. (kg)	600 Day Wt.(kg)	Milk
EBVs	+3.8	-2.7	+0.1	+2.0	+27	+46	+55	+9
Accuracy	43%	39%	60%	71%	70%	68%	63%	44%
CH EBV Ratio	**104**	**95**	**107**	**106**	**97**	**98**	**98**	**101**
	Scrotal Size (cm)	Carcase Weight (kg)	Eye Muscle Area (Sq.cm)	Fat (mm)	Retail Beef Yield	IMF %	**Terminal Sire Index**	**Self Replacing Index**
EBVs	+0.5	+47	+4.8	-0.3	+2.2	-0.5	**+53**	**+51**
Accuracy	69%	54%	43%	50%	47%	39%	-	-
CH EBV Ratio	**113**		**119**	**103**	**122**		**114**	**116**

Lot **W & N MILNE** **PEN 387**

2 **GLENERNAN POWER** **DNA Status: SV**

MBM0079025 **Born 07/01/2019** **UK520402501322**

Myostatin: F94L-0 , Q204X-1

gs. BALLINDALLOCH HERO (MBM0055630)

Sire - CORSKELLIE MILLER (MBM0070792)

gd. BALNUITH DESDEMONA (MBF0040525)

gs. DUNESK GENERAL (MBM0049447)

Dam - GLENERNAN LUSCIOUS (MBF0069932)

gd. GLENERNAN GORGEOUS (MBF0055252)

NOTES: Extended pedigree contains some of the best Charolais breeding over the last 20 years.

	January 2021 BRITISH CHAROLAIS BREEDPLAN							
	Calving Ease Dir. (%)	Calving Ease Dtrs (%)	Gest. Len. (days)	Birth Wt. (kg)	200 Day Wt (kg)	400 Day Wt. (kg)	600 Day Wt. (kg)	Milk
EBVs	-10.2	-4.1	+2.4	+3.8	+31	+49	+56	--
Accuracy	32%	28%	50%	54%	63%	64%	55%	
CH EBV Ratio	**77**	**92**	**84**	**88**	**104**	**101**	**99**	
	Scrotal Size (cm)	Carcase Weight (kg)	Eye Muscle Area (Sq.cm)	Fat (mm)	Retail Beef Yield	IMF %	**Terminal Sire Index**	**Self Replacing Index**
EBVs	-0.6	--	+1.5	-1.1	+1.0	-0.3	**+29**	**+24**
Accuracy	65%		38%	45%	42%	33%	-	-
CH EBV Ratio	**89**		**74**	**80**	**96**		**72**	**73**

Lot 3 **AJR FARMS** **PEN 391**

NEWLOGIE PRINCEERIC (ET) **DNA Status: PV**

MBM0079918 **Born 31/01/2019** **UK521334701879**

Myostatin: F94L-0 , Q204X-1

gs. HATENON (SEMEN ONLY) (MBMI0000991)

Sire - NEWLOGIE NOBEL (MBMI0000945)

gd. ILSA (FR5810513621)

gs. BERRY MIC (FR6344166891)

Dam - NEWLOGIE NAYA (MBFI0001208)

gd. JASETTE (FR5706053993)

	January 2021 BRITISH CHAROLAIS BREEDPLAN							
	Calving Ease Dir. (%)	Calving Ease Dtrs (%)	Gest. Len. (days)	Birth Wt. (kg)	200 Day Wt (kg)	400 Day Wt. (kg)	600 Day Wt.(kg)	Milk
EBVs	--	--	--	-0.2	+22	+40	+51	--
Accuracy				64%	61%	61%	53%	
CH EBV Ratio				**127**	**89**	**92**	**95**	

	Scrotal Size (cm)	Carcase Weight (kg)	Eye Muscle Area (Sq.cm)	Fat (mm)	Retail Beef Yield	IMF %	**Terminal Sire Index**	**Self Replacing Index**
EBVs	-1.1	--	+2.5	-0.6	+0.8	+0.2	**+42**	**+33**
Accuracy	64%		34%	42%	38%	29%	-	-
CH EBV Ratio	**79**		**88**	**94**	**91**		**95**	**87**

Lot **AJR FARMS** **PEN 392**

4 **NEWLOGIE PRINCENICOLAS (ET)** **DNA Status: PV**

MBM0079917 **Born 03/02/2019** **UK521334401883**

Myostatin: F94L-0 , Q204X-1

gs. HATENON (SEMEN ONLY) (MBMI0000991)

Sire - NEWLOGIE NOBEL (MBMI0000945)

gd. ILSA (FR5810513621)

gs. BERRY MIC (FR6344166891)

Dam - NEWLOGIE NAYA (MBFI0001208)

gd. JASETTE (FR5706053993)

	January 2021 BRITISH CHAROLAIS BREEDPLAN							
	Calving Ease Dir. (%)	Calving Ease Dtrs (%)	Gest. Len. (days)	Birth Wt. (kg)	200 Day Wt (kg)	400 Day Wt. (kg)	600 Day Wt.(kg)	Milk
EBVs	--	--	--	+0.8	+22	+38	+50	--
Accuracy				64%	61%	61%	53%	
CH EBV Ratio				**117**	**89**	**89**	**94**	

	Scrotal Size (cm)	Carcase Weight (kg)	Eye Muscle Area (Sq.cm)	Fat (mm)	Retail Beef Yield	IMF %	**Terminal Sire Index**	**Self Replacing Index**
EBVs	-1.1	--	+2.2	-0.4	+0.4	+0.3	**+38**	**+28**
Accuracy	64%		34%	42%	38%	29%	-	-
CH EBV Ratio	**79**		**83**	**100**	**83**		**88**	**79**

Lot **W & N MILNE** **PEN 388**

5 **GLENERNAN PLUTO** **DNA Status: SV**

MBM0079212 **Born 05/02/2019** **UK520402401328**

Myostatin: F94L-0 , Q204X-0

gs. BLELACK BLACKBERET (MBM0026850)

Sire - ELGIN JAGGER (MBM0063998)

gd. ELGIN FLORENCE (MBF0046788)

gs. MISTRAL BEN (MBM0025469)

Dam - GLENERNAN FYNE (MBF0050114)

gd. GLENERNAN AMBER (MBF0024146)

NOTES: Full brother, North Star, sold jointly to Thrunton and Crookdake Charolais at Stirling October 2019.

	January 2021 BRITISH CHAROLAIS BREEDPLAN							
	Calving Ease Dir. (%)	Calving Ease Dtrs (%)	Gest. Len. (days)	Birth Wt. (kg)	200 Day Wt (kg)	400 Day Wt. (kg)	600 Day Wt.(kg)	Milk
EBVs	+5.6	-9.3	+1.1	+1.9	+26	+44	+54	+10
Accuracy	43%	39%	60%	71%	70%	68%	62%	43%
CH EBV Ratio	**107**	**79**	**97**	**107**	**95**	**96**	**97**	**105**

	Scrotal Size (cm)	Carcase Weight (kg)	Eye Muscle Area (Sq.cm)	Fat (mm)	Retail Beef Yield	IMF %	**Terminal Sire Index**	**Self Replacing Index**
EBVs	+0.0	+45	+4.1	-0.1	+1.3	+0.0	**+48**	**+41**
Accuracy	68%	53%	43%	50%	46%	39%	-	-
CH EBV Ratio	**102**		**110**	**109**	**102**		**105**	**100**

Lot 6 **W & N MILNE** **PEN 389**

GLENERNAN PROMISE **DNA Status: PV**

MBM0081073 **Born 22/03/2019** **UK520402201333**

Myostatin: F94L-1 , Q204X-0

gs. BALTHAYOCK ADONIS (MBM0020431)

Sire - BLELACK DIGGER (MBM0038543)

gd. GALCANTRAY ABBEY (MBF0023749)

gs. ELGIN JAGGER (MBM0063998)

Dam - GLENERNAN MARGO (MBF0075509)

gd. GLENERNAN FUSION (MBF0049055)

NOTES: Heifer's calf by easy calving Blelack Digger.

	January 2021 BRITISH CHAROLAIS BREEDPLAN							
	Calving Ease Dir. (%)	Calving Ease Dtrs (%)	Gest. Len. (days)	Birth Wt. (kg)	200 Day Wt (kg)	400 Day Wt. (kg)	600 Day Wt.(kg)	Milk
EBVs	+9.4	-1.4	-0.2	+1.1	+30	+54	+67	+12
Accuracy	54%	52%	62%	64%	69%	70%	66%	55%
CH EBV Ratio	**115**	**98**	**110**	**114**	**102**	**105**	**107**	**108**
	Scrotal Size (cm)	Carcase Weight (kg)	Eye Muscle Area (Sq.cm)	Fat (mm)	Retail Beef Yield	IMF %	**Terminal Sire Index**	**Self Replacing Index**
EBVs	+1.4	+58	+5.9	-0.5	+2.5	-0.3	**+66**	**+66**
Accuracy	70%	61%	52%	57%	55%	50%	-	-
CH EBV Ratio	**132**		**134**	**97**	**128**		**137**	**139**

Lot 7 **J A WILSON & SONS** **PEN 376**

KINCLUNE PADDY **DNA Status: SV**

MBM0079692 **Born 25/03/2019** **UK520436600908**

Myostatin: F94L-0 , Q204X-0

gs. BLELACK DIGGER (MBM0038543)

Sire - GOLDIES LAD (MBM0066835)

gd. GOLDIES HAREBELL (MBF0059067)

gs. THRUNTON CROWNPRINCE (MBM0032196)

Dam - KINCLUNE INGA (MBF0061773)

gd. KINCLUNE COLLEEN (MBF0033265)

NOTES: **** Change of Sire – EBV's will be available on the Society website following the February 2021 analysis.

Lot 8 **J A WILSON & SONS** **PEN 377**

KINCLUNE PONGO **DNA Status: PV**

MBM0080401 **Born 30/03/2019** **UK520436300912**

Myostatin: F94L-0 , Q204X-1

gs. BLELACK DIGGER (MBM0038543)

Sire - GOLDIES LAD (MBM0066835)

gd. GOLDIES HAREBELL (MBF0059067)

gs. BEECHTREE GEORGE (MBM0048972)

Dam - KINCLUNE MOONLIGHT (MBF0074198)

gd. KINCLUNE FEARN (MBF0048711)

Lot 9 **J A WILSON & SONS** **PEN 378**

KINCLUNE PHILIP **DNA Status: SV**

MBM0079689 **Born 01/04/2019** **UK520436100917**

Myostatin: F94L-0 , Q204X-1

gs. BLELACK EDITION (MBM0043219)

Sire - GOLDIES IVAN (MBM0059328)

gd. GOLDIES ELEANOR (ET) (MBF0045982)

gs. THRUNTON CROWNPRINCE (MBM0032196)

Dam - KINCLUNE IZZY (MBF0061429)

gd. KINCLUNE ENA (MBF0044394)

Lot 10 **J A WILSON & SONS** **PEN 379**

KINCLUNE PILOT **DNA Status: PV**

MBM0079690 **Born 03/04/2019** **UK520436700916**

Myostatin: F94L-1 , Q204X-0

gs. BLELACK DIGGER (MBM0038543)

Sire - GOLDIES LAD (MBM0066835)

gd. GOLDIES HAREBELL (MBF0059067)

gs. BEECHTREE GEORGE (MBM0048972)

Dam - KINCLUNE LOTTIE (MBF0069232)

gd. KINCLUNE GALLICA (MBF0053195)

Lot 11 **MR M J MASSIE** **PEN 343**

ELRICK PARAMOUNT **DNA Status: SV**

MBM0080037 **Born 06/04/2019** **UK520735201369**

Myostatin: F94L-0 , Q204X-0

gs. UTRECHT (1822543214)

Sire - MAERDY GOUVERNEUR (MBMI0000758)

gd. REINE (0310030012)

gs. MAERDY DUBLIN (MBM0036035)

Dam - ELRICK IMMACULATE (MBF0060549)

gd. ELRICK TASTFUL (MBF0008637)

NOTES: Paramount is by the very easy calving Maerdy Gouverneur whose sons have sold to 25,000gns. Semen tested.

	January 2021 BRITISH CHAROLAIS BREEDPLAN							
	Calving Ease Dir. (%)	Calving Ease Dtrs (%)	Gest. Len. (days)	Birth Wt. (kg)	200 Day Wt (kg)	400 Day Wt. (kg)	600 Day Wt.(kg)	Milk
EBVs	+3.3	-9.2	--	+1.1	+17	+31	+46	+6
Accuracy	44%	36%		71%	69%	69%	62%	36%
CH EBV Ratio	**103**	**80**		**114**	**80**	**83**	**91**	**93**
	Scrotal Size (cm)	Carcase Weight (kg)	Eye Muscle Area (Sq.cm)	Fat (mm)	Retail Beef Yield	IMF %	**Terminal Sire Index**	**Self Replacing Index**
EBVs	+0.2	+36	+3.2	+0.2	+0.6	+0.3	**+38**	**+27**
Accuracy	70%	55%	43%	49%	46%	36%	-	-
CH EBV Ratio	**106**		**97**	**118**	**87**		**88**	**78**

Lot 12 **MESSRS R IRVINE & F G LAWSON** **PEN 349**

BALLINDALLOCH PEDLAR **DNA Status: PV**

MBM0085392 **Born 11/04/2019** **UK522636601346**

Myostatin: F94L-0 , Q204X-0

gs. MAERDY GRENADIER (MBM0053963)

Sire - BALTHAYOCK MAESTRO (MBM0069734)

gd. BALTHAYOCK GLORY (ET) (MBF0052837)

gs. MAERDY ERYR (MBM0044110)

Dam - BALLINDALLOCH MADONNA (MBF0072291)

gd. BALLINDALLOCH CHERIE (MBF0032360)

NOTES: ** Late registration – EBV's will be available on the Society website following the February 2021 analysis.**

Lot 13 **MR M J MASSIE** **PEN 344**

ELRICK PHANTOM **DNA Status: SV**

MBM0080192 **Born 15/04/2019** **UK520735301377**

Myostatin: F94L-0 , Q204X-0

gs. UTRECHT (1822543214)

Sire - MAERDY GOUVERNEUR (MBMI0000758)

gd. REINE (0310030012)

gs. THRUNTON FEARLESS (MBM0046310)

Dam - ELRICK JACKIE (MBF0064971)

gd. ELRICK BRITNEY (MBF0027999)

NOTES: Phantom is by the easy calving Gouverneur who has breed very well for us to a top of 25,000gn. Semen tested.

	January 2021 BRITISH CHAROLAIS BREEDPLAN							
	Calving Ease Dir. (%)	Calving Ease Dtrs (%)	Gest. Len. (days)	Birth Wt. (kg)	200 Day Wt (kg)	400 Day Wt. (kg)	600 Day Wt.(kg)	Milk
EBVs	+3.5	+3.2	--	+1.0	+28	+57	+63	+9
Accuracy	43%	35%		72%	70%	69%	62%	37%
CH EBV Ratio	**103**	**109**		**115**	**99**	**109**	**105**	**101**

	Scrotal Size (cm)	Carcase Weight (kg)	Eye Muscle Area (Sq.cm)	Fat (mm)	Retail Beef Yield	IMF %	**Terminal Sire Index**	**Self Replacing Index**
EBVs	-0.5	+53	+3.2	+0.2	+0.4	+0.3	**+47**	**+47**
Accuracy	69%	55%	43%	49%	46%	37%	-	-
CH EBV Ratio	**92**		**97**	**118**	**83**		**103**	**109**

Lot 14 **MR C M MCCOMBIE** **PEN 394**

AUCHINCRIEVE PEDRO **DNA Status: Result Pending**

MBM0080043 **Born 25/04/2019** **UK522860302491**

Myostatin: Result Pending

gs. MAERDY USA (MBMI0000209)

Sire - MAERDY EXPRESS (MBM0044112)

gd. MAERDY BARDY (MBF0027445)

gs. BALBITHAN VESPASIAN (MBM0018427)

Dam - AUCHINCRIEVE JANET (MBF0064409)

gd. ELRICK FRAGRANT (MBF0047898)

	January 2021 BRITISH CHAROLAIS BREEDPLAN							
	Calving Ease Dir. (%)	Calving Ease Dtrs (%)	Gest. Len. (days)	Birth Wt. (kg)	200 Day Wt (kg)	400 Day Wt. (kg)	600 Day Wt.(kg)	Milk
EBVs	-6.8	-2.1	+0.2	+6.0	+46	+74	+82	+8
Accuracy	38%	35%	56%	69%	66%	64%	59%	36%
CH EBV Ratio	**83**	**96**	**106**	**67**	**130**	**126**	**120**	**97**

	Scrotal Size (cm)	Carcase Weight (kg)	Eye Muscle Area (Sq.cm)	Fat (mm)	Retail Beef Yield	IMF %	**Terminal Sire Index**	**Self Replacing Index**
EBVs	-1.0	+56	+3.5	-1.1	+1.9	-0.3	**+55**	**+50**
Accuracy	62%	50%	39%	44%	42%	33%	-	-
CH EBV Ratio	**81**		**101**	**80**	**115**		**117**	**114**

Lot 15 **MR K MALLARKEY** **WITHDRAWN**

STRATHYS PETER **DNA Status: Result Pending**

MBM0080125 **Born 06/05/2019** **UK530839600175**

Myostatin: Result Pending

gs. MOUNTJOY EROS (ET) (MBM0041232)

Sire - STRATHYS JUDGE (MBM0066576)

gd. AIRDLIN EMPRESS (ET) (MBF0045899)

gs. MAERDY HARRYPOTTER (MBM0055415)

Dam - STRATHYS LILY (MBF0069558)

gd. STRATHYS ELEGANCE (ET) (MBF0046607)

Lot 16 **MR C M MCCOMBIE** **PEN 395**

AUCHINCRIEVE PIRANHA **DNA Status: Result Pending**

MBM0080177 **Born 07/05/2019** **UK522860602508**

Myostatin: Result Pending

gs. MAERDY USA (MBMI0000209)

Sire - MAERDY EXPRESS (MBM0044112)

gd. MAERDY BARDY (MBF0027445)

gs. OLRIG HIGHWAYMAN (MBM0052833)

Dam - AUCHINCRIEVE JODY (MBF0067032)

gd. AUCHINCRIEVE HOTLIPS (MBF0057525)

	January 2021 BRITISH CHAROLAIS BREEDPLAN							
	Calving Ease Dir. (%)	Calving Ease Dtrs (%)	Gest. Len. (days)	Birth Wt. (kg)	200 Day Wt (kg)	400 Day Wt. (kg)	600 Day Wt.(kg)	Milk
EBVs	-5.9	-1.3	+0.6	+4.3	+34	+67	+74	--
Accuracy	35%	31%	53%	67%	64%	62%	57%	
CH EBV Ratio	**85**	**98**	**102**	**84**	**110**	**119**	**113**	
	Scrotal Size (cm)	Carcase Weight (kg)	Eye Muscle Area (Sq.cm)	Fat (mm)	Retail Beef Yield	IMF %	**Terminal Sire Index**	**Self Replacing Index**
EBVs	+0.1	--	+4.2	-1.5	+2.4	-0.4	**+54**	**+52**
Accuracy	61%		36%	42%	38%	30%	-	-
CH EBV Ratio	**104**		**111**	**68**	**126**		**116**	**117**

Lot 17 **MR K MALLARKEY** **WITHDRAWN**

STRATHYS PRINCE **DNA Status: Result Pending**

MBM0085409 **Born 19/05/2019** **UK530839100184**

Myostatin: Result Pending

gs. MOUNTJOY EROS (ET) (MBM0041232)

Sire - STRATHYS JUDGE (MBM0066576)

gd. AIRDLIN EMPRESS (ET) (MBF0045899)

gs. MOUNTJOY EROS (ET) (MBM0041232)

Dam - STRATHYS IONAANN (MBF0069556)

gd. AIRDLIN FUZZ (MBF0049238)

Lot 18 **MR S A ALLAN** **PEN 381**

INVERDEN PARKER **DNA Status: Result Pending**

MBM0081180 **Born 23/05/2019** **UK529792700042**

Myostatin: Result Pending

gs. BLELACK DIGGER (MBM0038543)

Sire - GOLDIES LAD (MBM0066835)

gd. GOLDIES HAREBELL (MBF0059067)

gs. KINCLUNE HERBERT (MBM0053924)

Dam - INVERDEN MAJESTY (MBF0073461)

gd. KINCLUNE ESTER (MBF0044908)

	January 2021 BRITISH CHAROLAIS BREEDPLAN							
	Calving Ease Dir. (%)	Calving Ease Dtrs (%)	Gest. Len. (days)	Birth Wt. (kg)	200 Day Wt (kg)	400 Day Wt. (kg)	600 Day Wt.(kg)	Milk
EBVs	+12.9	+1.4	--	+2.8	+29	+42	+51	--
Accuracy	43%	37%		55%	48%	47%	46%	
CH EBV Ratio	**121**	**105**		**98**	**100**	**93**	**95**	

	Scrotal Size (cm)	Carcase Weight (kg)	Eye Muscle Area (Sq.cm)	Fat (mm)	Retail Beef Yield	IMF %	**Terminal Sire Index**	**Self Replacing Index**
EBVs	+0.5	--	+2.7	-0.1	+0.9	+0.0	**+46**	**+43**
Accuracy	42%		32%	37%	35%	32%	-	-
CH EBV Ratio	**113**		**90**	**109**	**93**		**102**	**103**

Lot **J A WILSON & SONS** **PEN 380**

19 **KINCLUNE POWERHOUSE** **DNA Status: PV**

MBM0080738 **Born 20/06/2019** **UK520436400941**

Myostatin: F94L-0 , Q204X-1

gs. BLELACK EDITION (MBM0043219)

Sire - GOLDIES IVAN (MBM0059328)

gd. GOLDIES ELEANOR (ET) (MBF0045982)

gs. THRUNTON CROWNPRINCE (MBM0032196)

Dam - KINCLUNE GALLICA (MBF0053195)

gd. KINCLUNE ANNE (MBF0021890)

Lot **MR R LEGGAT** **PEN 383**

20 **BONNYKELLY PHANTOM** **DNA Status: SV**

MBM0081141 **Born 12/07/2019** **UK520605300459**

Myostatin: Result Pending

gs. WESLEY EQUINOX (MBM0043457)

Sire - GRETNAHOUSE IVORY (MBM0060415)

gd. GRETNAHOUSE CAMPARI (MBF0031069)

gs. KERSKNOWE CLANSMAN (MBM0028768)

Dam - BONNYKELLY JAZMIN (MBF0065545)

gd. BONNYKELLY FAITH (MBF0047088)

NOTES: Sired by Gretnahouse Ivory who sired both our 2019 and 2020 Spring Show Overall Champions.

	January 2021 BRITISH CHAROLAIS BREEDPLAN							
	Calving Ease Dir. (%)	Calving Ease Dtrs (%)	Gest. Len. (days)	Birth Wt. (kg)	200 Day Wt (kg)	400 Day Wt. (kg)	600 Day Wt.(kg)	Milk
EBVs	+3.1	+0.9	--	+3.4	+32	+50	+60	+6
Accuracy	40%	36%		64%	59%	63%	57%	37%
CH EBV Ratio	**102**	**104**		**92**	**105**	**102**	**102**	**93**

	Scrotal Size (cm)	Carcase Weight (kg)	Eye Muscle Area (Sq.cm)	Fat (mm)	Retail Beef Yield	IMF %	**Terminal Sire Index**	**Self Replacing Index**
EBVs	-1.2	+47	+3.9	-0.9	+1.6	-0.2	**+50**	**+40**
Accuracy	63%	51%	41%	47%	44%	36%	-	-
CH EBV Ratio	**77**		**107**	**85**	**109**		**109**	**98**

Lot 21 **R & N BARCLAY** **PEN 331**

HARESTONE PRACTIONER (ET) **DNA Status: PV**

MBM0081386 **Born 26/07/2019** **UK521516502241**

Myostatin: F94L-0 , Q204X-1

gs. GOLDIES ESTATE (MBM0043500)

Sire - HARESTONE HERCULES (MBM0055719)

gd. HARESTONE CELESTE (MBF0030014)

gs. HARESTONE RONSARD (MBMI0000193)

Dam - HARESTONE BRIGITTE (ET) (MBF0026913)

gd. HARESTONE RUMBA (MBFI0000153)

NOTES: Hercules is consistently breeding a high level of bulls and females. His cattle always have great physical growth rates. Brigitte is our best breeding cow who is sadly no longer with us. Her mother is the Royal Highland overall champion Harestone Rumba.

	January 2021 BRITISH CHAROLAIS BREEDPLAN							
	Calving Ease Dir. (%)	Calving Ease Dtrs (%)	Gest. Len. (days)	Birth Wt. (kg)	200 Day Wt (kg)	400 Day Wt. (kg)	600 Day Wt.(kg)	Milk
EBVs	+2.1	-2.9	--	+3.3	+34	+52	+51	+15
Accuracy	41%	36%		72%	69%	68%	68%	36%
CH EBV Ratio	**101**	**95**		**93**	**109**	**103**	**95**	**118**

	Scrotal Size (cm)	Carcase Weight (kg)	Eye Muscle Area (Sq.cm)	Fat (mm)	Retail Beef Yield	IMF %	**Terminal Sire Index**	**Self Replacing Index**
EBVs	-1.3	+40	+2.7	-0.3	+1.0	-0.2	**+40**	**+41**
Accuracy	64%	56%	39%	48%	44%	36%	-	-
CH EBV Ratio	**75**		**90**	**103**	**96**		**91**	**100**

Lot **MR R LEGGAT** **PEN 384**

22 **BONNYKELLY POLO** **DNA Status: Result Pending**

MBM0083909 **Born 23/08/2019** **UK520605200465**

Myostatin: Result Pending

gs. LAGAVAICH FERNANDO (MBM0048767)

Sire - KERSKNOWE JAKE (MBM0061465)

gd. KERSKNOWE GENTEEL (MBF0052217)

gs. GRETNAHOUSE IVORY (MBM0060415)

Dam - BONNYKELLY MABEL (MBF0073100)

gd. THRUNTON ELLA (MBF0043784)

NOTES: Heifer's calf by Kersknowe Jake.

	January 2021 BRITISH CHAROLAIS BREEDPLAN							
	Calving Ease Dir. (%)	Calving Ease Dtrs (%)	Gest. Len. (days)	Birth Wt. (kg)	200 Day Wt (kg)	400 Day Wt. (kg)	600 Day Wt.(kg)	Milk
EBVs	+11.1	-3.0	--	+3.5	+35	+58	+63	--
Accuracy	42%	36%		65%	63%	66%	59%	
CH EBV Ratio	**118**	**94**		**91**	**111**	**110**	**104**	

	Scrotal Size (cm)	Carcase Weight (kg)	Eye Muscle Area (Sq.cm)	Fat (mm)	Retail Beef Yield	IMF %	**Terminal Sire Index**	**Self Replacing Index**
EBVs	-0.2	+44	+1.5	-0.8	+0.5	-0.3	**+48**	**+42**
Accuracy	65%	54%	44%	51%	48%	40%	-	-
CH EBV Ratio	**98**		**74**	**88**	**85**		**105**	**101**

Lot 23 **MR R LEGGAT** **PEN 385**

BONNYKELLY PREMIUM **DNA Status: Result Pending**

MBM0085039 **Born 01/09/2019** **UK520605500468**

Myostatin: Result Pending

gs. LAGAVAICH FERNANDO (MBM0048767)

Sire - KERSKNOWE JAKE (MBM0061465)

gd. KERSKNOWE GENTEEL (MBF0052217)

gs. GRETNAHOUSE IVORY (MBM0060415)

Dam - BONNYKELLY MAGGIE (MBF0073919)

gd. BONNYKELLY ERIN (MBF0042787)

NOTES: Heifer's calf by Kersknowe Jake.

	January 2021 BRITISH CHAROLAIS BREEDPLAN							
	Calving Ease Dir. (%)	Calving Ease Dtrs (%)	Gest. Len. (days)	Birth Wt. (kg)	200 Day Wt (kg)	400 Day Wt. (kg)	600 Day Wt.(kg)	Milk
EBVs	+8.4	-2.7	--	+3.8	+36	+51	+59	--
Accuracy	42%	35%		65%	62%	65%	59%	
CH EBV Ratio	**113**	**95**		**88**	**112**	**103**	**101**	

	Scrotal Size (cm)	Carcase Weight (kg)	Eye Muscle Area (Sq.cm)	Fat (mm)	Retail Beef Yield	IMF %	**Terminal Sire Index**	**Self Replacing Index**
EBVs	+0.9	+43	+2.4	-0.4	+0.9	+0.0	**+48**	**+46**
Accuracy	65%	52%	42%	48%	45%	36%	-	-
CH EBV Ratio	**121**		**86**	**100**	**93**		**105**	**108**

Lot 24 **R & N BARCLAY** **PEN 332**

HARESTONE PHILANDER **DNA Status: PV**

MBM0081788 **Born 26/09/2019** **UK521516702292**

Myostatin: F94L-0 , Q204X-1

gs. BALTHAYOCK FERDINAND (ET) (MBM0045811)

Sire - BALTHAYOCK MINSTREL (MBM0069857)

gd. BALTHAYOCK GEM (MBF0051491)

gs. ALLANFAULD GAMBLER (MBM0052537)

Dam - HARESTONE LYRA (MBF0070636)

gd. HARESTONE ELIZABETH (MBF0043456)

NOTES: One of the first sons from Minstrel. He was Overall champion in Stirling February 2018 costing 46,000 gns. Philanders mother has an extremely good bull calf again this year

	January 2021 BRITISH CHAROLAIS BREEDPLAN							
	Calving Ease Dir. (%)	Calving Ease Dtrs (%)	Gest. Len. (days)	Birth Wt. (kg)	200 Day Wt (kg)	400 Day Wt. (kg)	600 Day Wt.(kg)	Milk
EBVs	-0.5	-4.9	--	+4.2	+37	+53	+65	--
Accuracy	40%	32%		70%	60%	57%	55%	
CH EBV Ratio	**96**	**90**		**85**	**114**	**105**	**106**	

	Scrotal Size (cm)	Carcase Weight (kg)	Eye Muscle Area (Sq.cm)	Fat (mm)	Retail Beef Yield	IMF %	**Terminal Sire Index**	**Self Replacing Index**
EBVs	+0.0	--	+4.0	-0.1	+1.0	+0.1	**+49**	**+42**
Accuracy	43%		34%	44%	41%	36%	-	-
CH EBV Ratio	**102**		**108**	**109**	**96**		**107**	**101**

R & N BARCLAY **PEN 333**

25 HARESTONE PERU **DNA Status: PV**

MBM0081764 **Born 10/10/2019** **UK521516502304**

Myostatin: F94L-1 , Q204X-0

gs. GOLDIES ESTATE (MBM0043500)

Sire - HARESTONE HERCULES (MBM0055719)

gd. HARESTONE CELESTE (MBF0030014)

gs. BLELACK DIGGER (MBM0038543)

Dam - HARESTONE JULIE (MBF0064541)

gd. TREFONNEN VERONICA (MBF0019367)

NOTES: Harestone Hercules is a bull we kept for our own use and is breeding superb. Perus mother Julie is out of the best breeding line at Trefonnen.

	January 2021 BRITISH CHAROLAIS BREEDPLAN							
	Calving Ease Dir. (%)	Calving Ease Dtrs (%)	Gest. Len. (days)	Birth Wt. (kg)	200 Day Wt (kg)	400 Day Wt. (kg)	600 Day Wt.(kg)	Milk
EBVs	+8.1	+1.2	+0.3	+2.8	+35	+64	+72	+11
Accuracy	40%	35%	59%	70%	65%	58%	57%	35%
CH EBV Ratio	**112**	**104**	**105**	**98**	**110**	**116**	**111**	**106**
	Scrotal Size (cm)	Carcase Weight (kg)	Eye Muscle Area (Sq.cm)	Fat (mm)	Retail Beef Yield	IMF %	**Terminal Sire Index**	**Self Replacing Index**
EBVs	+0.3	--	+3.4	-1.0	+1.4	-0.2	**+59**	**+55**
Accuracy	43%		32%	37%	35%	31%	-	-
CH EBV Ratio	**108**		**100**	**82**	**104**		**124**	**122**

Lot 26 **R & N BARCLAY** **PEN 334**

HARESTONE POLARBEAR **DNA Status: PV**

MBM0081936 **Born 17/11/2019** **UK521516502339**

Myostatin: F94L-0 , Q204X-1

gs. BALTHAYOCK FERDINAND (ET) (MBM0045811)

Sire - BALTHAYOCK MINSTREL (MBM0069857)

gd. BALTHAYOCK GEM (MBF0051491)

gs. THRUNTON FEARLESS (MBM0046310)

Dam - HARESTONE IVY (MBF0060362)

gd. HARESTONE AZTEC (MBF0022241)

NOTES: One of the first sons off Minstrel. He was overall champion in Stirling February 2018 costing 46,000 gns. Polar Bears mother is a tremendous Thrunton Fearless daughter who seem to be breeding well with big pelvis

	January 2021 BRITISH CHAROLAIS BREEDPLAN							
	Calving Ease Dir. (%)	Calving Ease Dtrs (%)	Gest. Len. (days)	Birth Wt. (kg)	200 Day Wt (kg)	400 Day Wt. (kg)	600 Day Wt.(kg)	Milk
EBVs	+0.7	+2.3	--	+3.5	+38	+60	+68	+12
Accuracy	41%	34%		71%	68%	61%	61%	36%
CH EBV Ratio	**98**	**107**		**91**	**115**	**112**	**108**	**109**
	Scrotal Size (cm)	Carcase Weight (kg)	Eye Muscle Area (Sq.cm)	Fat (mm)	Retail Beef Yield	IMF %	**Terminal Sire Index**	**Self Replacing Index**
EBVs	+0.2	--	+3.6	-0.2	+1.0	+0.0	**+51**	**+52**
Accuracy	44%		35%	44%	41%	34%	-	-
CH EBV Ratio	**106**		**103**	**106**	**96**		**110**	**117**

LIMOUSIN BULLS

Lot 27 **MR P A WALKER** **PEN 299**

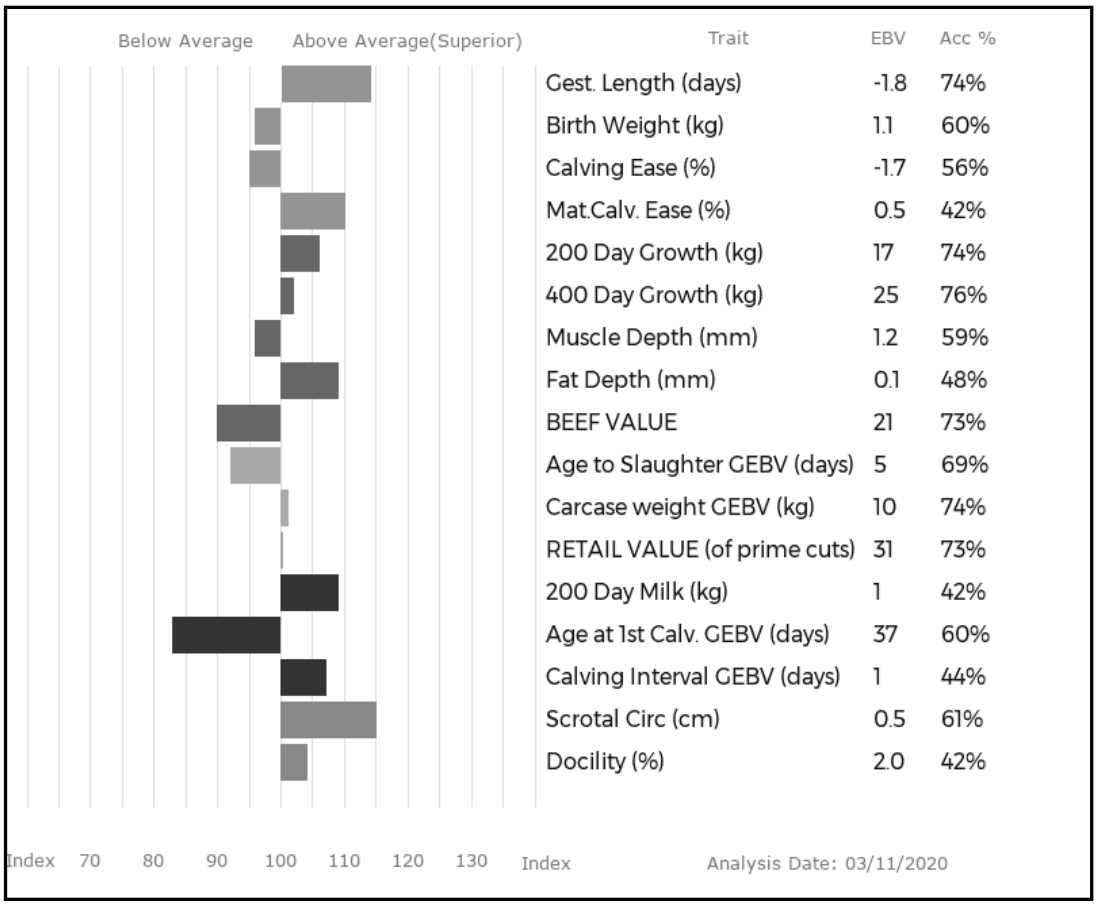
WALKERS POTARCH

Born 11/01/2019 **WBK19-0843** **UK 523060/600843**

Natural Calf

Myostatin: F94L/F94L **Gen. Colour: Hom. Red** **Polled: Hom. Horned**

gs. GREENWELL FIELDMASTER NK10-034	ggs. CASIMIR 23-07-278-647
Sire MILLINGTON INSPIRE MRJ13-2242	ggd. GREENWELL AMY NK05-018
gd. MILLINGTON DELIGHT MRJ08-492	ggs. MAS DU CLO 23-96-032-213
	ggd. RONICK NESTLE DY97-037
gs. DRUMMIN BANDIT IE131206320571	ggs. NAVARIN 19-97-008-831
Dam WALKERS IMBELINDA WBK13-0560	ggd. DRUMMIN PEACH IE131206330135
gd. WALKERS ULINDA WBK03-109	ggs. GRAHAMS SAMSON GV01-098
	ggd. WALKERS MARINDA WBK96-038



Adjusted	Wts(kg)
100	178
200	319
300	441
400	556
500	681
Scanned	NO

Lot 28 **MR W ROBERTSON & SON** **PEN 340**

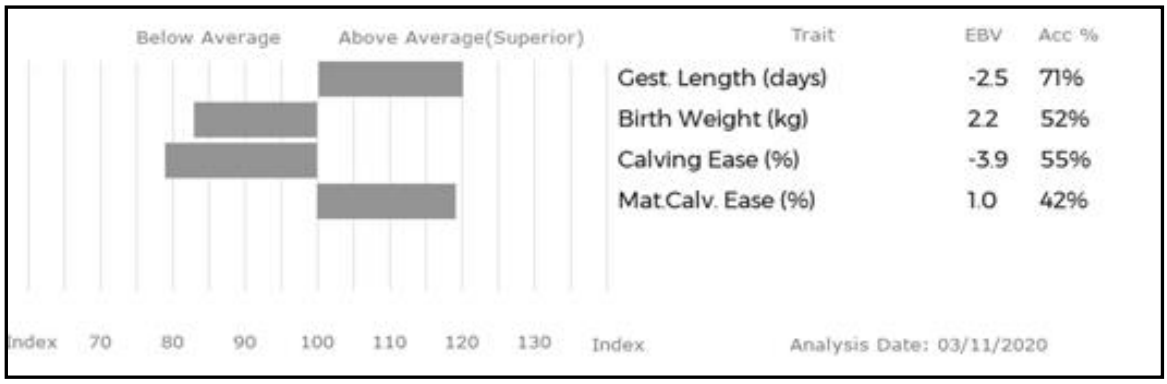
FODDERLETTER PERCY

Born 15/03/2019 **RFV19-1800** **UK 522637/301800**

Natural Calf

Myostatin: F94L/F94L **Gen. Colour: not tested** **Polled: not tested**

gs. HALTCLIFFE DANCER RP08-753	ggs. SYMPA 48-01-006-969
Sire WHISKEY LORD DOQ15-0256	ggd. CLOUGHHEAD ROMANY HCX00-051
gd. WILODGE GLITZY WEY11-024	ggs. WILODGE VANTASTIC WEY04-037
	ggd. WILODGE AMETHYST WEY05-025
gs. PYEBROOK EUIN MXI09-321	ggs. HALTCLIFFE BEN RP06-585
Dam MOONLEAZE ISABELLA CKL13-023	ggd. UNICITE 19-31-439-149
gd. MOONLEAZE DELIGHTFUL CKL08-007	ggs. BERNISH ALFY MJI05-044
	ggd. WILODGE LUCYLOCKET WEY95-018



Lord's first son was first prize in his class Stirling Oct 2019 and sold for £3,800gns. Lord is breeding well in both the pedigree and commercial herds at Fodderletter. His commercial Spring born heifer calves averaged over £1200 at the 2020 October sales.

Lot 29 **MR & MRS J PENNY** **PEN 290**

SHANNAS PABLO

Born 07/04/2019 **PAS19-2550** **UK 520782/402550**

Natural Calf

Myostatin: not tested **Gen. Colour: not tested** **Polled: not tested**

gs. POWERFUL IRISH IE121704080130

ggs. HALTCLIFFE DANCER RP08-753

Sire ANSIDE LEXION IF15-0860

ggd. CLONLARA VIXEN IE131837830040

gd. ANSIDE GAGA IF11-602

ggs. FREWSTOWN BREAKDANCE FBH06-164

ggd. ANSIDE VERONICA IF04-239

gs. AMPERTAINE HITMAN MGD12-027

ggs. AMPERTAINE ELGIN MGD09-039

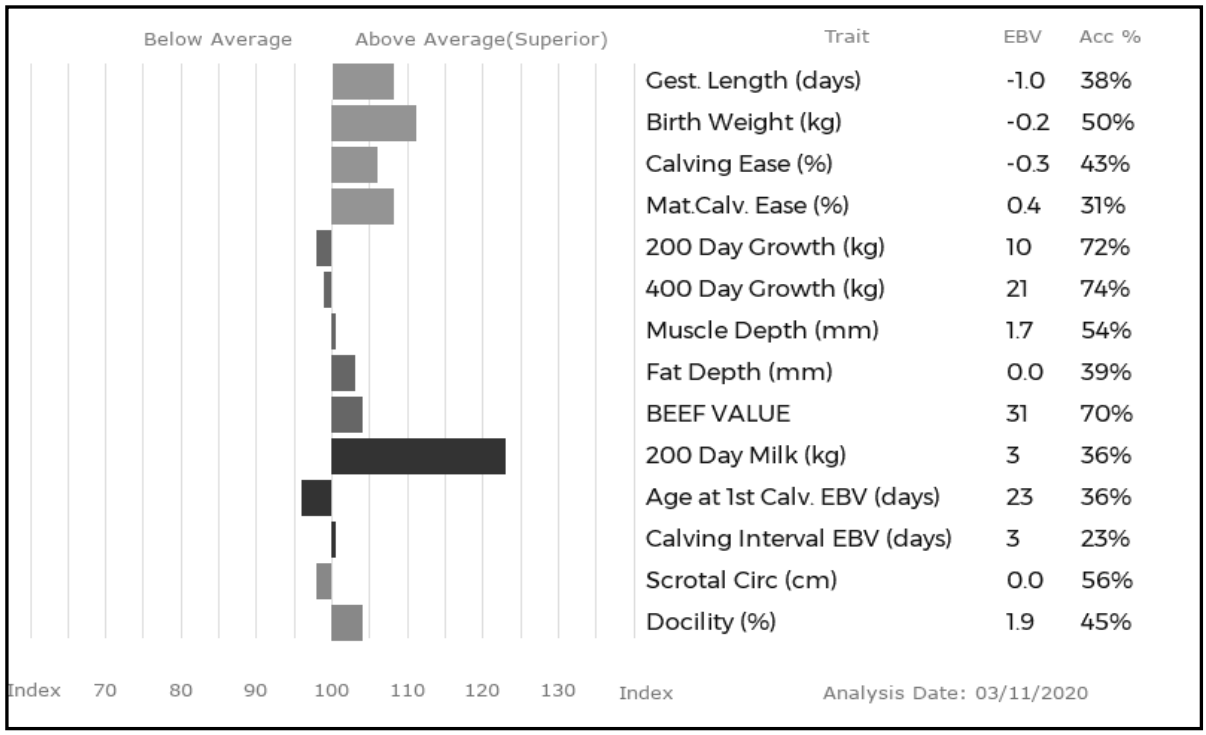
Dam SHANNAS MIMA PAS16-2179

ggd. AMPERTAINE VANITY MGD04-005

gd. SHANNAS HEMMA PAS12-1012

ggs. DYKE THUNDER MJF02-010

ggd. SHANNAS UGEMMA PAS03-303



Adjusted	Wts(kg)
100	198
200	358
300	504
400	599
500	0
Scanned	NO

Lot 30 **MR W F CRUIKSHANK** **PEN 288**

CLURY PROSPECTOR

Born 13/04/2019 **CJR19-1992** **UK 500815/501992**

Natural Calf

Myostatin: F94L/F94L **Gen. Colour: not tested** **Polled: not tested**

gs. CORREZE 19-32-749-881

ggs. OBJAT 19-30-299-413

Sire LARRY 36-15-355-934

ggd. VEDETTE 19-31-939-408

gd. IDEALE 36-15-353-543

ggs. FUREURBEN 36-12-040-584

ggd. BROCHETTE 36-15-027-000

gs. MARAISCOTE FERGUS NAJ10-026

ggs. VIRGINIA ANDY IE121657690563

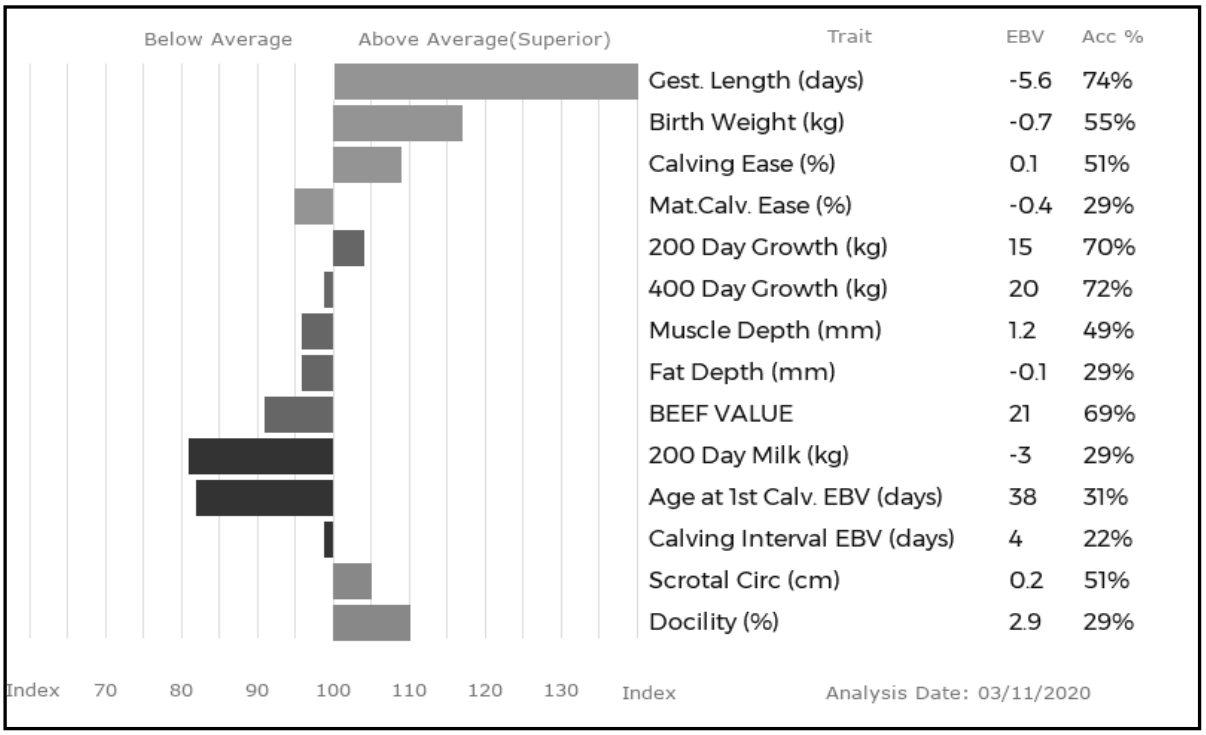
Dam CLURY JEWEL CJR14-1470

ggd. MARAISCOTE UNICE NAJ03-010

gd. CLURY DIAMOND CJR08-022

ggs. TAHITIEN 19-31-659-924

ggd. CLURY RUBY CJR00-003



Adjusted	Wts(kg)
100	171
200	309
300	0
400	634
500	790
Scanned	NO

His sire Larry is very easy calving and short gestation, so will be suitable for heifers.

Lot 31 **MR M J MASSIE** **PEN 345**

ELRICK PICASSO

Born 21/04/2019 **MNU19-1382** **UK 520735/101382**

Natural Calf

Myostatin: F94L/F94L **Gen. Colour: not tested** **Polled: not tested**

gs. RAHONEY GEOFFREY MDS11-011

ggs. WILODGE CERBERUS WEY07-010

Sire ELRICK JETHRO MNU14-0997

ggd. RAHONEY ABIGAIL MDS05-002

gd. ELRICK FIONA MNU10-003

ggs. WILODGE VANTASTIC WEY04-037

ggd. ELRICK CHANEL MNU07-013

gs. CROFTLIMOUSIN SPENCER FCM01-054

ggs. MARRON 36-96-018-225

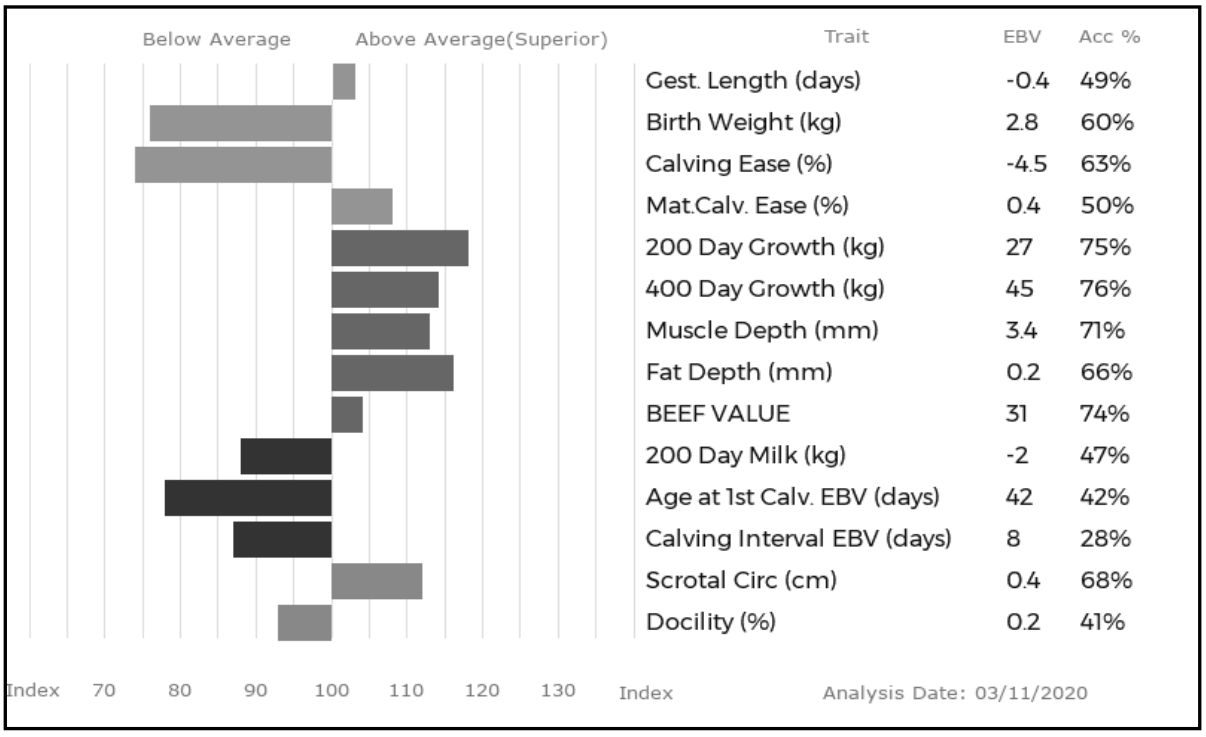
Dam ELRICK DIAMOND MNU08-013

ggd. RONICK GERTRUDE DYG-001

gd. ELRICK UIST MNU03-001

ggs. RONICK ICEMAN DY93-018-FOT

ggd. ELRICK ROWAN MNU00-015



Adjusted	Wts(kg)
100	168
200	294
300	447
400	611
500	760
Scanned	YES

Lot 32 **MR P A WALKER** **PEN 300**

WALKERS PITCAPLE

Born 16/05/2019 **WBK19-0864** **UK 523060/600864**

Natural Calf

Myostatin: F94L/F94L **Gen. Colour: not tested** **Polled: not tested**

gs. CAPPADUFF AARON IE271419730055

Sire ALLANFAULD GAZZA MCF11-003

gd. ALLANFAULD AFRICA MCF05-027

gs. DRUMMIN BANDIT IE131206320571

Dam WALKERS HINDA WBK12-483

gd. WALKERS DARINDA WBK08-278

ggs. SIAM 19-30-888-598

ggd. LINKSLODGE SALLY IE321461270040

ggs. SYMPA 48-01-006-969

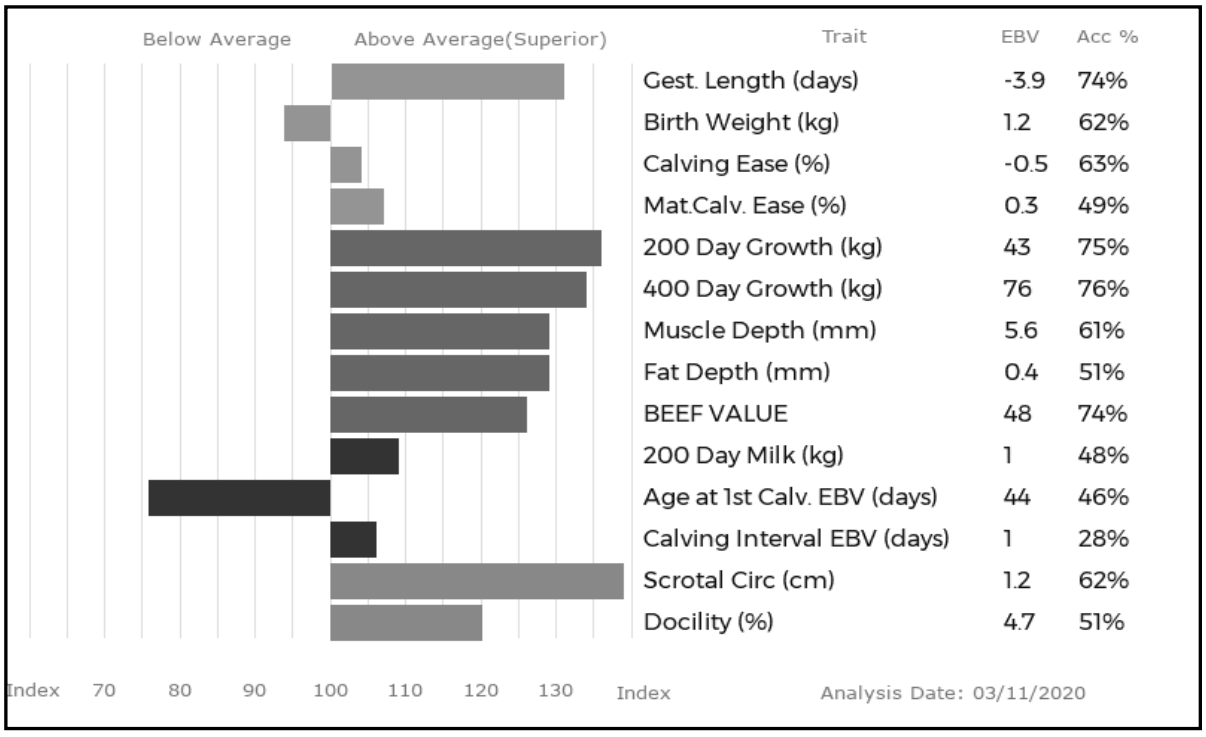
ggd. ALLANFAULD UPATSY MCF03-013

ggs. NAVARIN 19-97-008-831

ggd. DRUMMIN PEACH IE131206330135

ggs. WALKERS TEMARI WBK02-076

ggd. WALKERS TARINDA WBK02-073



Adjusted	Wts(kg)
100	217
200	387
300	552
400	705
500	0
Scanned	NO

Lot 33 **MR M J MASSIE** **PEN 346**

ELRICK PHOENIX

Born 22/05/2019 **MNU19-1396** **UK 520735/101396**

Natural Calf

Myostatin: F94L/NT821 **Gen. Colour: not tested** **Polled: not tested**

gs. RAHONEY GEOFFREY MDS11-011

ggs. WILODGE CERBERUS WEY07-010

Sire ELRICK JETHRO MNU14-0997

ggd. RAHONEY ABIGAIL MDS05-002

gd. ELRICK FIONA MNU10-003

ggs. WILODGE VANTASTIC WEY04-037

ggd. ELRICK CHANEL MNU07-013

gs. CRAIGATOKE DUNDEE CDZ08-005

ggs. HALTCLIFFE UNDERWRITER RP03-003

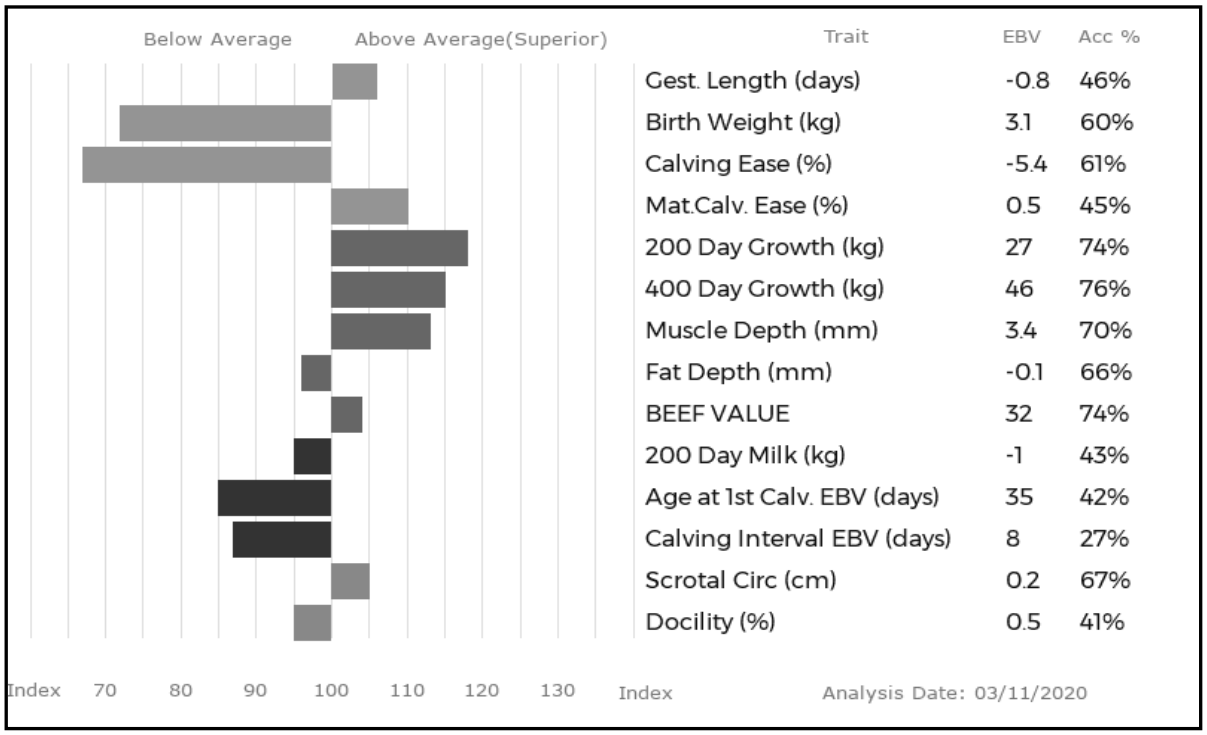
Dam ELRICK IDELLE MNU13-0906

ggd. CRAIGATOKE VICTORIES CDZ04-023

gd. ELRICK FERN MNU10-002

ggs. WILODGE VANTASTIC WEY04-037

ggd. ELRICK CONNIE MNU07-027



Trait	EBV	Acc %
Gest. Length (days)	-0.8	46%
Birth Weight (kg)	3.1	60%
Calving Ease (%)	-5.4	61%
Mat.Calv. Ease (%)	0.5	45%
200 Day Growth (kg)	27	74%
400 Day Growth (kg)	46	76%
Muscle Depth (mm)	3.4	70%
Fat Depth (mm)	-0.1	66%
BEEF VALUE	32	74%
200 Day Milk (kg)	-1	43%
Age at 1st Calv. EBV (days)	35	42%
Calving Interval EBV (days)	8	27%
Scrotal Circ (cm)	0.2	67%
Docility (%)	0.5	41%

Analysis Date: 03/11/2020

Adjusted	Wts(kg)
100	171
200	299
300	469
400	615
500	0
Scanned	YES

Lot 34 **MR P A WALKER** **PEN 301**

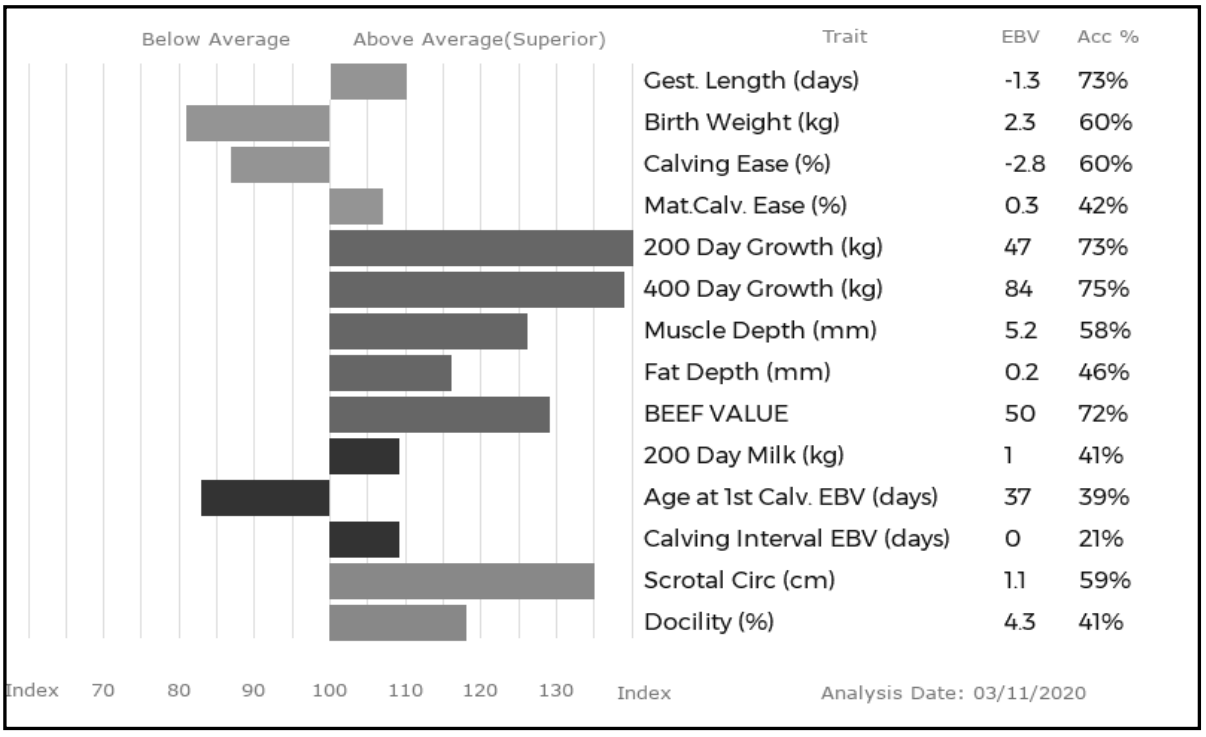
WALKERS POLONIUM

Born 30/05/2019 **WBK19-0876** **UK 523060/400876**

Natural Calf

Myostatin: F94L/F94L **Gen. Colour: not tested** **Polled: not tested**

gs. GREENWELL FIELDMASTER NK10-034	ggs. CASIMIR 23-07-278-647
Sire MILLINGTON INSPIRE MRJ13-2242	ggd. GREENWELL AMY NK05-018
gd. MILLINGTON DELIGHT MRJ08-492	ggs. MAS DU CLO 23-96-032-213
	ggd. RONICK NESTLE DY97-037
gs. ALLANFAULD GAZZA MCF11-003	ggs. CAPPADUFF AARON IE271419730055
Dam WALKERS LISA WBK15-0647	ggd. ALLANFAULD AFRICA MCF05-027
gd. WALKERS HERECLISSA WBK12-502	ggs. DRUMMIN BANDIT IE131206320571
	ggd. WALKERS ECCLISSA WBK09-347



Adjusted	Wts(kg)
100	205
200	373
300	539
400	711
500	0
Scanned	NO

Lot 35 **MR M J MASSIE** **PEN 347**

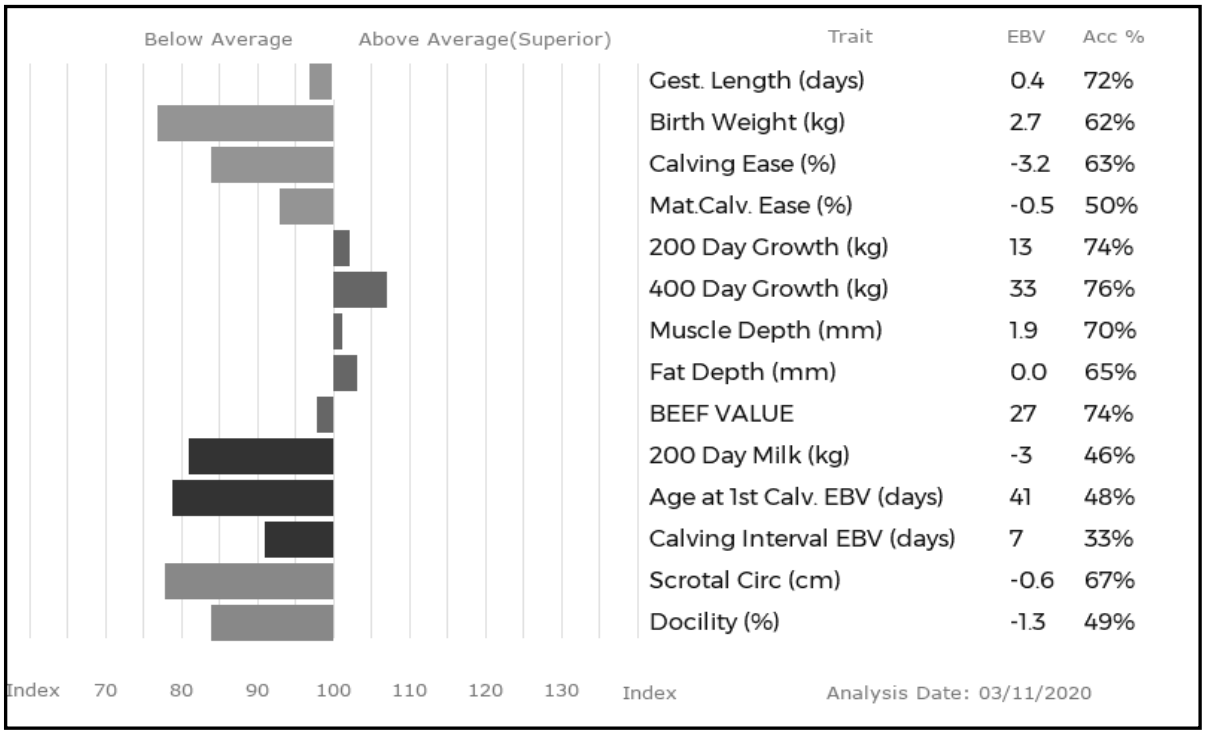
ELRICK PATRIOT

Born 04/06/2019 **MNU19-1405** **UK 520735/301405**

Got by AI **Natural Calf**

Myostatin: not tested **Gen. Colour: not tested** **Polled: not tested**

gs. WILODGE VANTASTIC WEY04-037	ggs. WILODGE TONKA WEY02-002
Sire FOXHILLFARM IMPECABULL AGX13-005	ggd. RAVENELLE 23-51-224-583
gd. BANKDALE ALICE WLJ05-091	ggs. SYMPA 48-01-006-969
	ggd. PRINCESSE 87-08-920-187
gs. RAHONEY GEOFFREY MDS11-011	ggs. WILODGE CERBERUS WEY07-010
Dam ELRICK JEWEL MNU14-0991	ggd. RAHONEY ABIGAIL MDS05-002
gd. ELRICK AILEEN MNU05-011	ggs. GOLDIES OSWALD GS98-064
	ggd. ELRICK TSARINA MNU02-011



Adjusted	Wts(kg)
100	129
200	219
300	435
400	595
500	0
Scanned	YES

Lot 36 **MR P A WALKER** **PEN 302**

WALKERS PALLADIUM

Born 09/06/2019 **WBK19-0882** **UK 523060/300882**

Got by AI **Natural Calf**

Myostatin: F94L/F94L **Gen. Colour: not tested** **Polled: not tested**

gs. DIAMANT 19-32-949-798

Sire FENOMEN 87-28-891-777

gd. BOUCLEDOR 87-28-891-326

gs. ALLANFAULD GAZZA MCF11-003

Dam WALKERS MERRINDA WBK16-0701

gd. WALKERS HERRINDA WBK12-475

ggs. ULTIME 55-00-564-649

ggd. NACRE 19-97-004-909

ggs. MALIBU 36-96-026-196

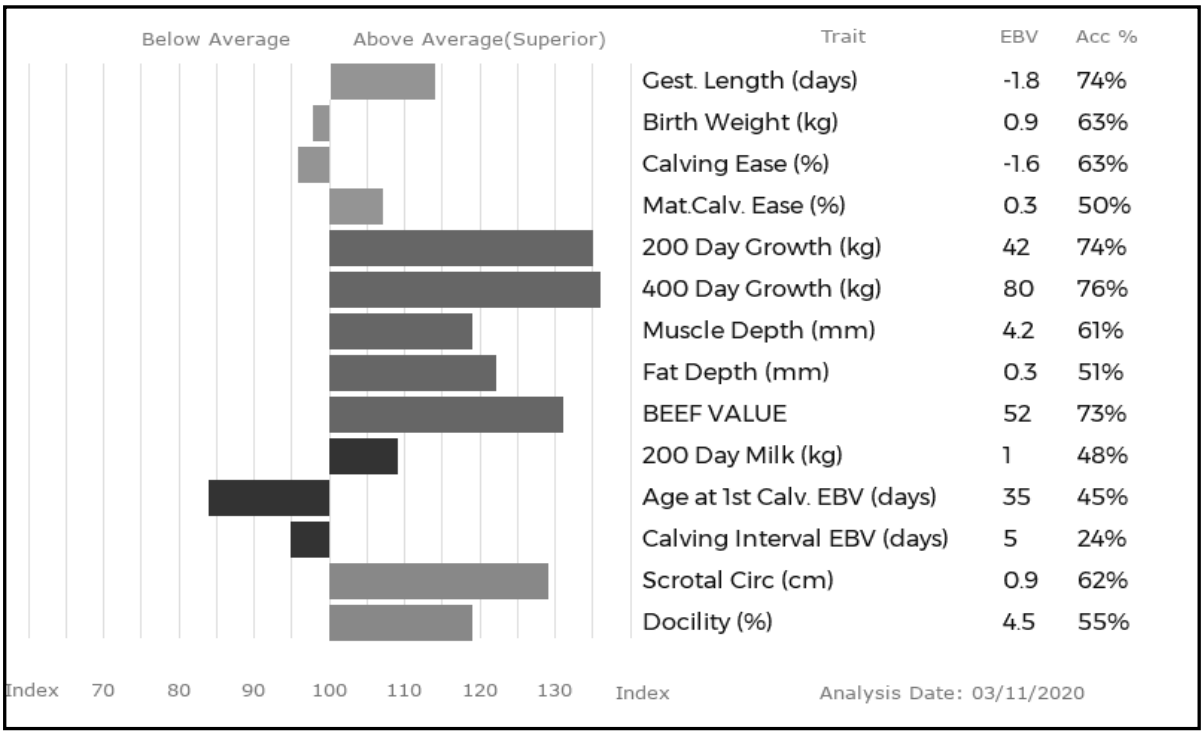
ggd. VIKY 87-28-890-965

ggs. CAPPADUFF AARON IE271419730055

ggd. ALLANFAULD AFRICA MCF05-027

ggs. DRUMMIN BANDIT IE131206320571

ggd. WALKERS ERRINDA WBK09-320



Adjusted	Wts(kg)
100	182
200	332
300	492
400	647
500	0
Scanned	NO

Lot 37 **MR P A WALKER** **PEN 303**

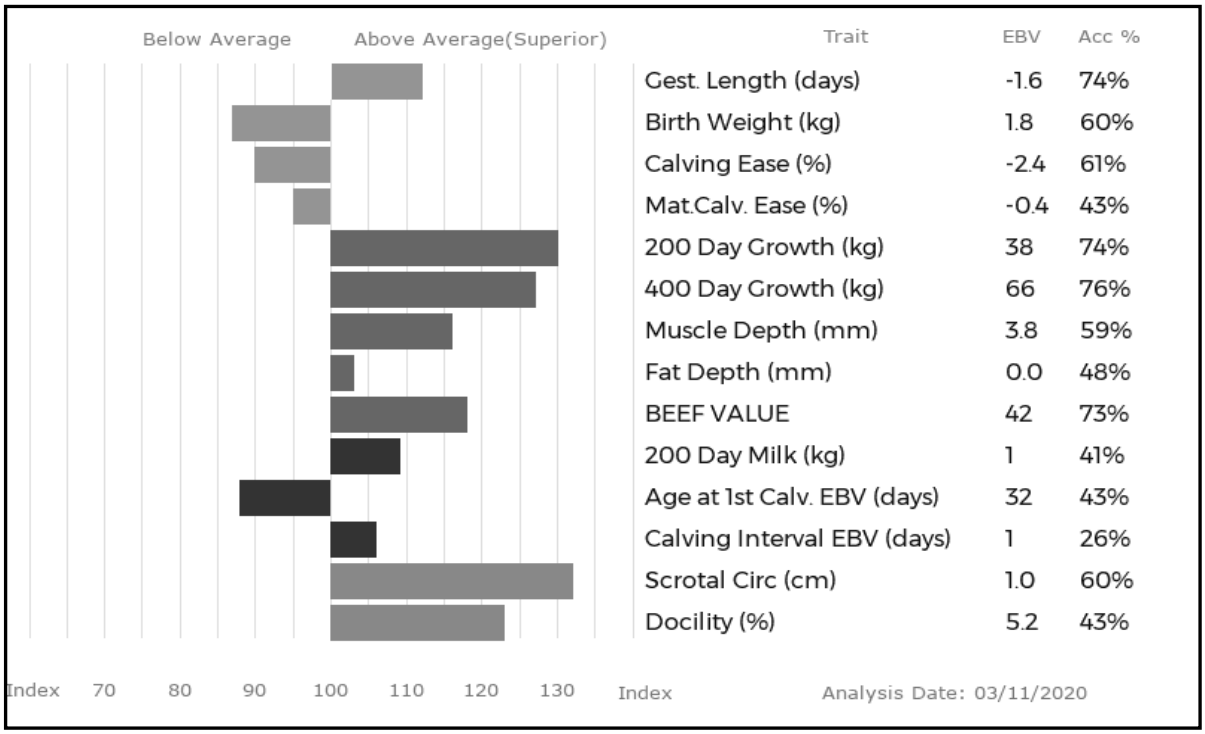
WALKERS PAVELLE

Born 03/07/2019 **WBK19-0894** **UK 523060/100894**

Natural Calf

Myostatin: F94L/F94L **Gen. Colour: not tested** **Polled: not tested**

gs. GREENWELL FIELDMASTER NK10-034	ggs. CASIMIR 23-07-278-647
Sire MILLINGTON INSPIRE MRJ13-2242	ggd. GREENWELL AMY NK05-018
gd. MILLINGTON DELIGHT MRJ08-492	ggs. MAS DU CLO 23-96-032-213
	ggd. RONICK NESTLE DY97-037
gs. KAPRICO ERAVELLE SHJ09-007	ggs. WILODGE TONKA WEY02-002
Dam WALKERS MAVELLE WBK16-0683	ggd. KAPRICO RAVELLE SHJ00-007
gd. WALKERS ISIENNE WBK13-520	ggs. IONESCO 36-93-000-206
	ggd. WALKERS FARISIENNE WBK10-368



Adjusted	Wts(kg)
100	198
200	360
300	510
400	667
500	0
Scanned	NO

Lot 38 **MR P A WALKER** **PEN 304**

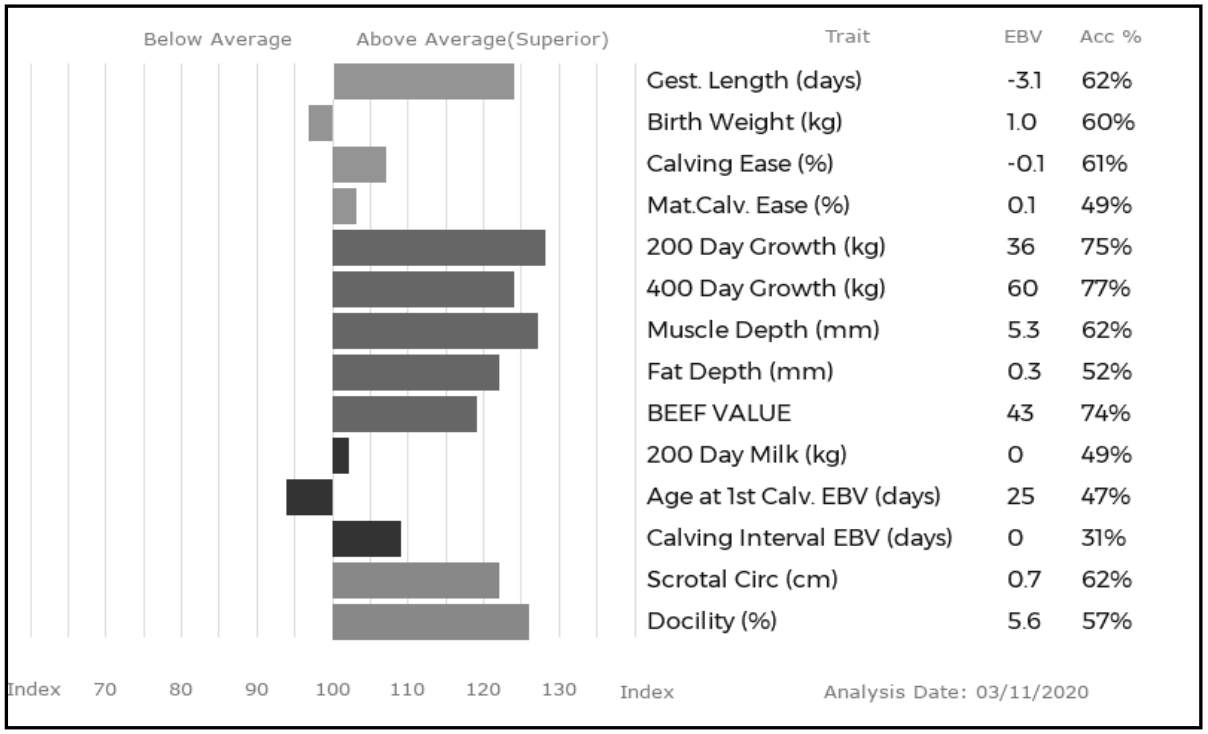
WALKERS PROSSARO

Born 04/07/2019 **WBK19-0895** **UK 523060/200895**

Natural Calf

Myostatin: F94L/F94L **Gen. Colour: not tested** **Polled: not tested**

gs. CAPPADUFF AARON IE271419730055	ggs. SIAM 19-30-888-598
Sire ALLANFAULD GAZZA MCF11-003	ggd. LINKSLODGE SALLY IE321461270040
gd. ALLANFAULD AFRICA MCF05-027	ggs. SYMPA 48-01-006-969
	ggd. ALLANFAULD UPATSY MCF03-013
gs. IONESCO 36-93-000-206	ggs. BAMBINO 87-86-001-669
Dam WALKERS JACQUE WBK14-0596	ggd. COQUETTE 36-87-001-802
gd. WALKERS GUTOPIE WBK11-422	ggs. DRUMMIN BANDIT IE131206320571
	ggd. WALKERS UTOPIE WBK03-104



Adjusted	Wts(kg)
100	214
200	383
300	521
400	675
500	0
Scanned	NO

Lot 39 **MR NR BARCLAY** **PEN 335**

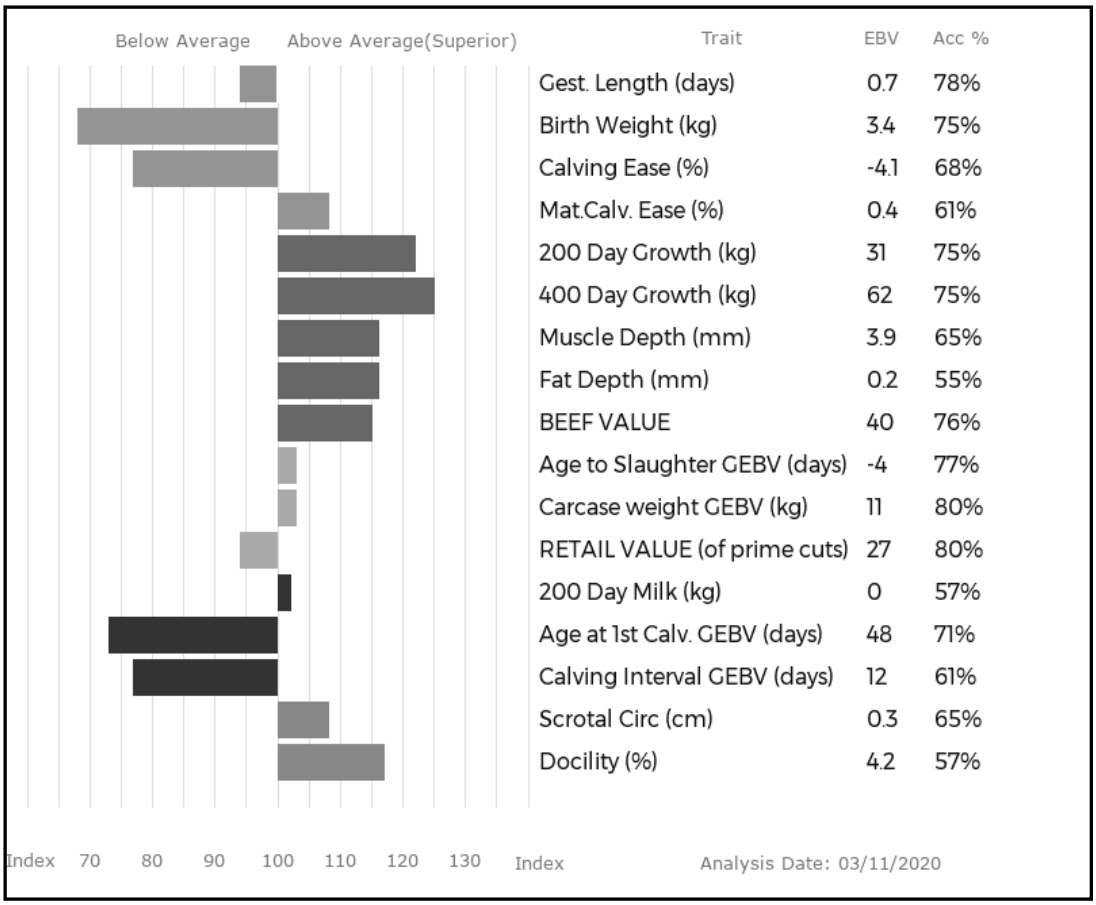
HARESTONE PEGASUS

Born 16/07/2019 **BJQ19-2235** **UK 521516/602235**

Embryo Calf

Myostatin: NT821/Q204X **Gen. Colour: Hom. Red** **Polled: Hom. Horned**

gs. WILODGE VANTASTIC WEY04-037	ggs. WILODGE TONKA WEY02-002
Sire CLARAGH FRANCO RJT10-013	ggd. RAVENELLE 23-51-224-583
gd. HALTCLIFFE AVON RP05-014	ggs. SYMPA 48-01-006-969
	ggd. RAFALE 87-00-840-326
gs. GOLDIES COMET GS07-954	ggs. WILODGE VANTASTIC WEY04-037
Dam GLENROCK IMPULSE IE13-117	ggd. GOLDIES VITALITY GS04-613
gd. GLENROCK SPANGLE IE01-155	ggs. KYPE INTERROGATE CAQ93-023
	ggd. RACHELS LESLEY WT95-780



Adjusted	Wts(kg)
100	182
200	321
300	496
400	653
500	797
Scanned	YES

This bull will breed show calves. His mother Glenrock Impulse was purchased for 24000 gns. Her full sister Glenrock Illusion made 125 000gns at the same sale. Franco breeds shapely cattle.

Lot 40 **MR P A WALKER** **PEN 305**

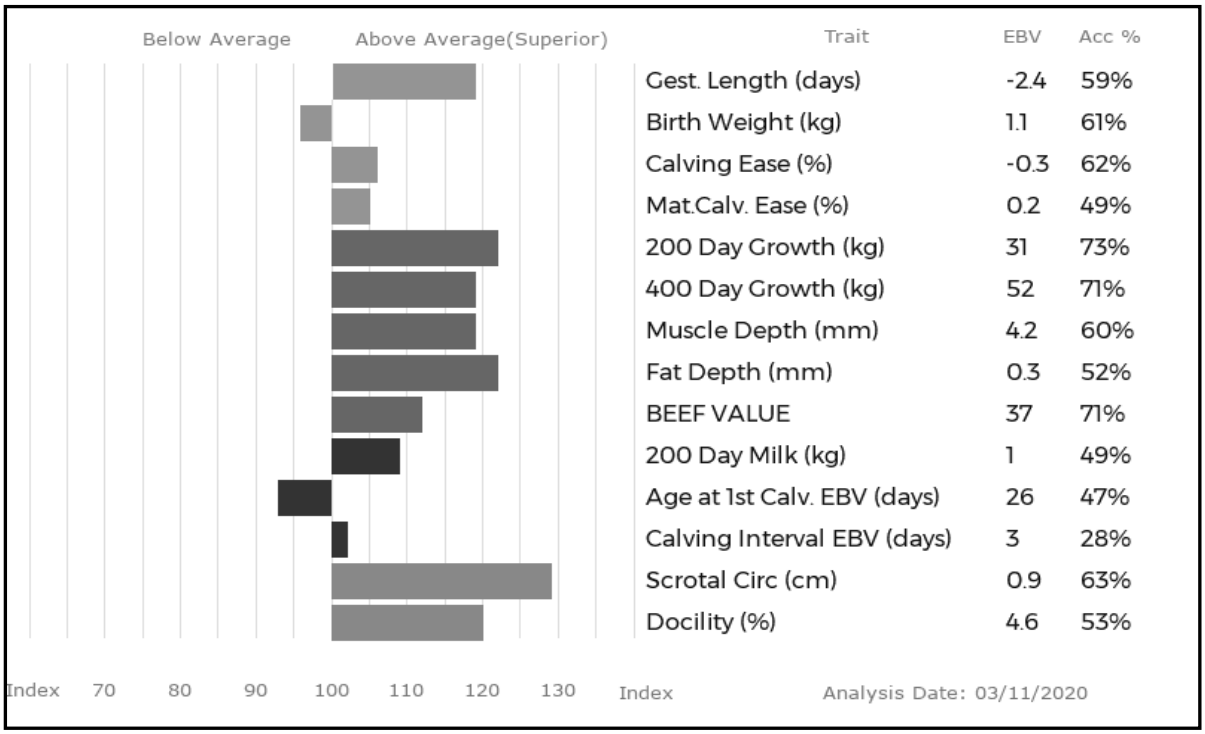
WALKERS PTOLEMY

Born 04/08/2019 **WBK19-0903** **UK 523060/300903**

Natural Calf

Myostatin: F94L/F94L **Gen. Colour: not tested** **Polled: not tested**

gs. CAPPADUFF AARON IE271419730055	ggs. SIAM 19-30-888-598
Sire ALLANFAULD GAZZA MCF11-003	ggd. LINKSLODGE SALLY IE321461270040
gd. ALLANFAULD AFRICA MCF05-027	ggs. SYMPA 48-01-006-969
	ggd. ALLANFAULD UPATSY MCF03-013
gs. DRUMMIN BANDIT IE131206320571	ggs. NAVARIN 19-97-008-831
Dam WALKERS FLORINE WBK10-397	ggd. DRUMMIN PEACH IE131206330135
gd. WALKERS PERINE WBK99-163	ggs. WALKERS JASPER WBK94-002
	ggd. WALKERS HESTER WBK92-007



Adjusted	Wts(kg)
100	207
200	368
300	530
400	0
500	0
Scanned	NO

Lot 41 **MR W ROBERTSON & SON** **PEN 341**

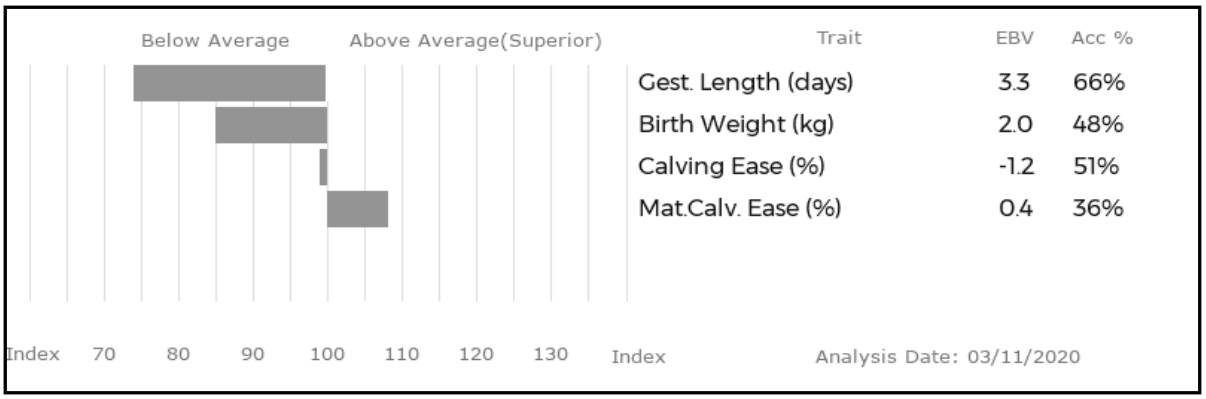
FODDERLETTER PEREZ

Born 06/08/2019 **RFV19-1830** **UK 522637/501830**

Natural Calf

Myostatin: F94L/NT821 **Gen. Colour: not tested** **Polled: not tested**

gs. LOOSEBEARE GOLDDUST QA11-082	ggs. GRONW CHEEKY PDJ07-001
Sire MOONLEAZE NORBERT CKL17-0736	ggd. LOOSEBEARE CAYLEY QA07-001
gd. MOONLEAZE ISABELLA CKL13-023	ggs. PYEBROOK EUIN MXI09-321
	ggd. MOONLEAZE DELIGHTFUL CKL08-007
gs. HAFODLAS DOMINO REM08-321	ggs. BAILEA SPUNKIE JAG01-101
Dam EMSLIES GLENYS EEF11-027	ggd. HAFODLAS SHONA REM01-086
gd. BALLYMONEY ROSANNE IE381082340079	ggs. FERRY 19-90-003-045
	ggd. BALLYMONEY FESTIVAL BLMF-006



Perez is the first bull to be offered for sale by Moonleaze Norbert who has been breeding well in the commercial herd at Fodderletter. His dam Emslies Glenys is one of the biggest and best breeding cows in the herd.

Lot 42 **MR NR BARCLAY** **PEN 336**

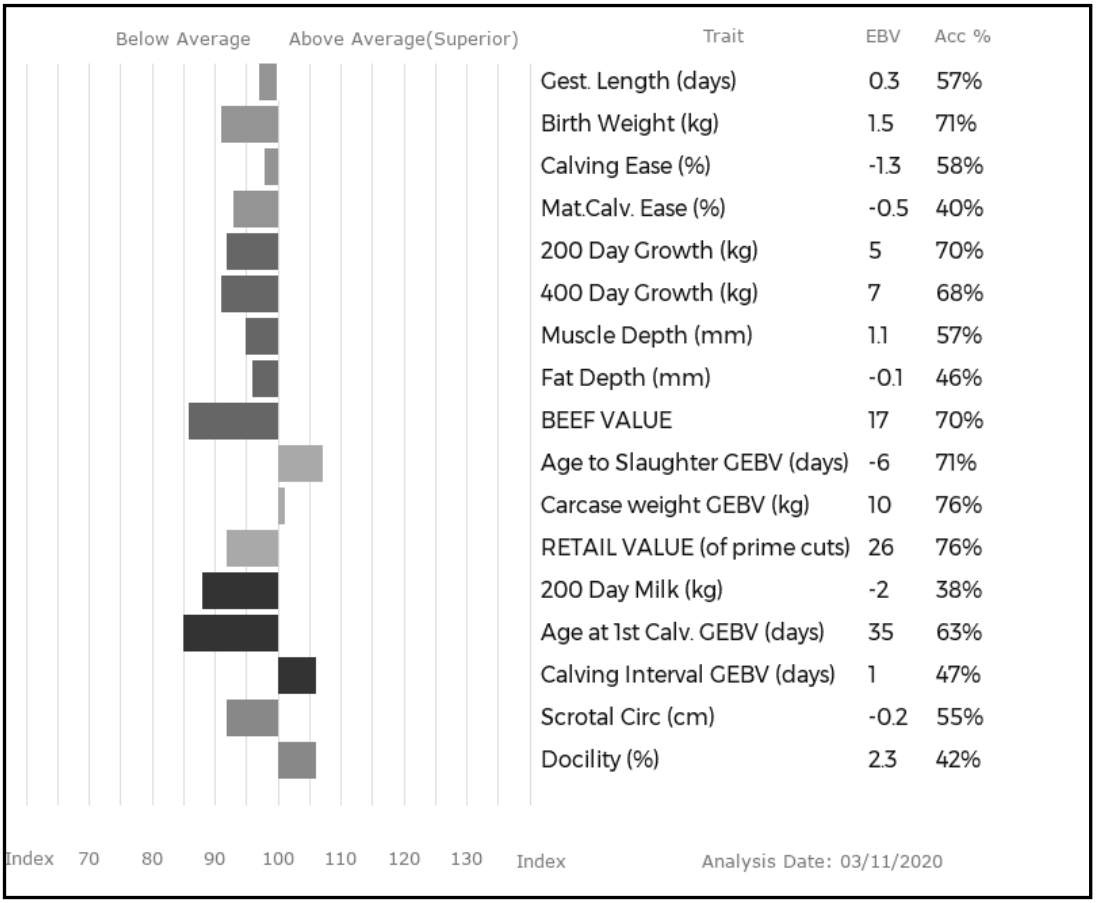
HARESTONE PANCHO

Born 07/09/2019 **BJQ19-2270** **UK 521516/602270**

Natural Calf

Myostatin: F94L/F94L **Gen. Colour: Hom. Red** **Polled: Hom. Horned**

gs. FAIRYWATER HAIG EAB12-029	ggs. IRONSTONE DIEGO SDS08-076
Sire SWARLAND LIKELYLAD SOH15-1399	ggd. PELLETSTOWN CATHERINE IE281523430865
gd. SWARLAND FANCIFUL SOH10-008	ggs. BRONTEMOOR APACHE PCI05-083
	ggd. SWARLAND AMY SOH05-002
gs. BROADMEADOWS CANNON CAVC-031	ggs. BROADMEADOWS VIP CAVV-024-FOT
Dam HARESTONE INGA BJQ13-016	ggd. BROADMEADOWS AINSI CAVA-003
gd. CLARKTON VOGUE MHK04-021	ggs. ORMEB 86-98-118-809
	ggd. MERESIDE JACKIE HCG94-008



Adjusted	Wts(kg)
100	157
200	284
300	0
400	559
500	0
Scanned	YES

Likelylad is very easy calving. All heifers are put in calf to him. Cannon is a great female breeder.

Lot 43 **MR NR BARCLAY** **PEN 337**

HARESTONE PARATROOPER

Born 19/10/2019 **BJQ19-2309** **UK 521516/302309**

Natural Calf

Myostatin: F94L/F94L **Gen. Colour: Hom. Red** **Polled: Hom. Horned**

gs. FAIRYWATER HAIG EAB12-029

ggs. IRONSTONE DIEGO SDS08-076

Sire SWARLAND LIKELYLAD SOH15-1399

ggd. PELLETSTOWN CATHERINE IE281523430865

gd. SWARLAND FANCIFUL SOH10-008

ggs. BRONTEMOOR APACHE PCI05-083

ggd. SWARLAND AMY SOH05-002

gs. MILLGATE FAME LFR10-015

ggs. CONDOR 19-33-099-583

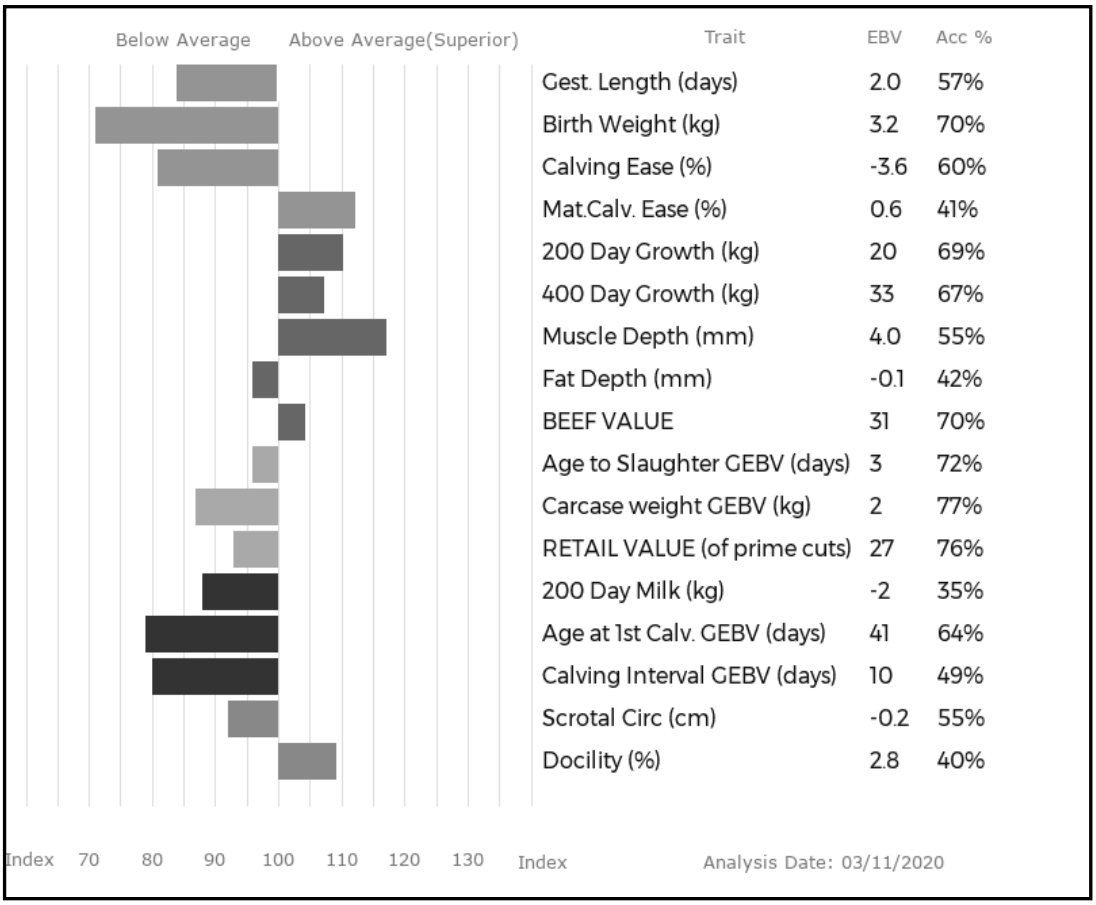
Dam HARESTONE LALLY BJQ15-1794

ggd. KILCURRY CAILIN IE251022720201

gd. MILLBURN CAOIMHE IE181698320460

ggs. MAS DU CLO 23-96-032-213

ggd. KILCOAN RENJEE IE131590830268



Adjusted	Wts(kg)
100	171
200	315
300	0
400	678
500	0
Scanned	YES

Double F94L easy Calving bull. We used Likelylad on heifers with no problems. Caoimhe has bred bulls to 10,000gns.

SIMMENTAL BULLS

Lot 44 **MESSRS C & M BRUCE** **PEN 292**

TILLYEVE KESTEREL 19

M098430 **Born 20/03/2019** **UK521448201304**

gs. RACEVIEW ALL-STAR KK (ET)(TM)(Imp.IE) (I000932)

Sire - WOODHALL ELLISON 13 (M084070)

gd. WOODHALL ASTER (F092825)

gs. KILBRIDE FARM VERNON (M070467)

Dam - TILLYEVE BUNTY (F094797)

gd. TILLYEVE LINDA (F064864)

	2021 SIMMENTAL BREEDPLAN							
	Calving Ease Dir. (%)	Calving Ease Dtrs (%)	Gest. Len. (days)	Birth Wt. (kg)	200 Day Wt (kg)	400 Day Wt. (kg)	600 Day Wt.(kg)	Maternal (Milk)
EBVs	-2.1	-0.6	--	+2.4	+31	+63	+70	+4
Accuracy	49%	44%		74%	64%	68%	63%	33%
Av 18 Calves	**-0.7**	**-0.1**	**+0.0**	**+2.5**	**+33**	**+61**	**+66**	**+6**
	Scrotal Size (cm)	Carcase Weight (kg)	Eye Muscle Area (Sq.cm)	Fat (mm)	Retail Beef Yield	IMF %	**Terminal Sire Index**	**Self Replacing Index**
EBVs	+0.0	+55	+7.3	-0.7	+3.3	-0.9	**+99**	**+103**
Accuracy	65%	54%	44%	51%	48%	42%		
Av 18 Calves	**+0.6**	**+44**	**+3.9**	**-0.1**	**+0.8**	**-0.1**	**+75**	**+83**

Lot 45 **MESSRS C & M BRUCE** **PEN 293**

TILLYEVE KARL 19

M098424 **Born 21/03/2019** **UK521448301305**

gs. CURAHEEN APOSTLE (ET) (I001091)

Sire - OVERHILL HOUSE GANDHI 15 (M088743)

gd. SEEPA DAFFODIL (Imp.IE) (I001238)

gs. KILBRIDE FARM VERNON (M070467)

Dam - TILLYEVE GAYLE (F113802)

gd. TILLYEVE SENGA (F078308)

	2021 SIMMENTAL BREEDPLAN							
	Calving Ease Dir. (%)	Calving Ease Dtrs (%)	Gest. Len. (days)	Birth Wt. (kg)	200 Day Wt (kg)	400 Day Wt. (kg)	600 Day Wt.(kg)	Maternal (Milk)
EBVs	+5.6	+0.2	--	+0.4	+28	+54	+57	+2
Accuracy	44%	39%		73%	63%	67%	62%	29%
Av 18 Calves	**-0.7**	**-0.1**	**+0.0**	**+2.5**	**+33**	**+61**	**+66**	**+6**
	Scrotal Size (cm)	Carcase Weight (kg)	Eye Muscle Area (Sq.cm)	Fat (mm)	Retail Beef Yield	IMF %	**Terminal Sire Index**	**Self Replacing Index**
EBVs	+0.3	+41	+4.0	+0.5	+0.2	+0.2	**+69**	**+82**
Accuracy	64%	54%	43%	52%	48%	41%		
Av 18 Calves	**+0.6**	**+44**	**+3.9**	**-0.1**	**+0.8**	**-0.1**	**+75**	**+83**

Lot 46 **MR W S STRONACH** **PEN 307**

ISLAVALE KENNY 19

M098497 **Born 31/03/2019** **UK522759503068**

gs. CLEENAGH FLASHER (M042198)

Sire - RANFURLY CONFEDERATE C24 11 EX 94(M080428)

gd. RACEVIEW AISLING MATILDA 429 (I000884)

gs. CURAHEEN BANDIT (Imp.IE) (I000966)

Dam - ISLAVALE GLEE VG 86(F116153)

gd. ISLAVALE BEATRIX (F095616)

NOTES: Semen tested. Kenny is a long dark red bull with plenty shape. Easy calving. Sire classified as EX94.

	2021 SIMMENTAL BREEDPLAN							
	Calving Ease Dir. (%)	Calving Ease Dtrs (%)	Gest. Len. (days)	Birth Wt. (kg)	200 Day Wt (kg)	400 Day Wt. (kg)	600 Day Wt.(kg)	Maternal (Milk)
EBVs	+7.1	+1.5	-1.1	+1.2	+28	+68	+66	+2
Accuracy	56%	53%	57%	77%	72%	72%	67%	50%
Av 18 Calves	**-0.7**	**-0.1**	**+0.0**	**+2.5**	**+33**	**+61**	**+66**	**+6**
	Scrotal Size (cm)	Carcase Weight (kg)	Eye Muscle Area (Sq.cm)	Fat (mm)	Retail Beef Yield	IMF %	**Terminal Sire Index**	**Self Replacing Index**
EBVs	+0.8	+53	+6.0	+0.8	+1.2	+0.0	**+96**	**+117**
Accuracy	73%	61%	53%	61%	58%	53%		
Av 18 Calves	**+0.6**	**+44**	**+3.9**	**-0.1**	**+0.8**	**-0.1**	**+75**	**+83**

Lot **MESSRS C & M BRUCE** **PEN 294**

47 **TILLYEVE KNIGHT 19**

M098892 **Born 30/04/2019** **UK521448701351**

gs. RACEVIEW ALL-STAR KK (ET)(TM)(Imp.IE) (I000932)

Sire - WOODHALL ELLISON 13 (M084070)

gd. WOODHALL ASTER (F092825)

gs. CURAHEEN APOSTLE (ET) (I001091)

Dam - TILLYEVE EVANGELINE (F105508)

gd. TILLYEVE BONNIE (F094508)

	2021 SIMMENTAL BREEDPLAN							
	Calving Ease Dir. (%)	Calving Ease Dtrs (%)	Gest. Len. (days)	Birth Wt. (kg)	200 Day Wt (kg)	400 Day Wt. (kg)	600 Day Wt.(kg)	Maternal (Milk)
EBVs	+1.3	-0.3	--	+1.6	+36	+68	+71	+5
Accuracy	47%	44%		74%	65%	68%	63%	36%
Av 18 Calves	**-0.7**	**-0.1**	**+0.0**	**+2.5**	**+33**	**+61**	**+66**	**+6**
	Scrotal Size (cm)	Carcase Weight (kg)	Eye Muscle Area (Sq.cm)	Fat (mm)	Retail Beef Yield	IMF %	**Terminal Sire Index**	**Self Replacing Index**
EBVs	+0.6	+49	+5.1	-0.4	+1.2	-0.2	**+88**	**+99**
Accuracy	65%	56%	45%	54%	50%	44%		
Av 18 Calves	**+0.6**	**+44**	**+3.9**	**-0.1**	**+0.8**	**-0.1**	**+75**	**+83**

Lot **MR D C HOULDEY** **PEN 297**

48 **MANOR PARK KINGPIN 19**

M100121 **Born 30/07/2019** **UK586515500674**

gs. DIRNANEAN BRADLEY 10 EX 93(M076366)

Sire - CORSKIE EBAY 13 (M085188)

gd. CORSKIE ANYA (F093130)

gs. BLACKFORD WORZEL 2 (M072312)

Dam - MANOR PARK GERALDINE (F115089)

gd. MANOR PARK AMY (F093034)

NOTES: Semen tested

	2021 SIMMENTAL BREEDPLAN							
	Calving Ease Dir. (%)	Calving Ease Dtrs (%)	Gest. Len. (days)	Birth Wt. (kg)	200 Day Wt (kg)	400 Day Wt. (kg)	600 Day Wt.(kg)	Maternal (Milk)
EBVs	-0.9	+2.4	--	+5.1	+47	+95	+107	+6
Accuracy	53%	48%		75%	65%	68%	63%	33%
Av 18 Calves	**-0.7**	**-0.1**	**+0.0**	**+2.5**	**+33**	**+61**	**+66**	**+6**

	Scrotal Size (cm)	Carcase Weight (kg)	Eye Muscle Area (Sq.cm)	Fat (mm)	Retail Beef Yield	IMF %	**Terminal Sire Index**	**Self Replacing Index**
EBVs	+2.7	+69	+6.5	-0.5	+2.1	-0.3	**+124**	**+150**
Accuracy	68%	55%	47%	53%	51%	44%		
Av 18 Calves	**+0.6**	**+44**	**+3.9**	**-0.1**	**+0.8**	**-0.1**	**+75**	**+83**

Lot 49 **MR W S STRONACH** **PEN 308**

ISLAVALE KOOPER 19

M099976 **Born 18/11/2019** **UK522759303185**

gs. CLEENAGH FLASHER (M042198)

Sire - RANFURLY CONFEDERATE C24 11 EX 94(M080428)

gd. RACEVIEW AISLING MATILDA 429 (I000884)

gs. ATLOW DIXON 12 EX 91(M082827)

Dam - ISLAVALE HANNAH 2 VG 87(F117536)

gd. ISLAVALE BLOOM EX 93(F096690)

NOTES: Semen tested. Kooper is a long dark red bull. Easy calving with growth and milk. Out of a very good breeding line with ex graded cattle in his pedigree.

	2021 SIMMENTAL BREEDPLAN							
	Calving Ease Dir. (%)	Calving Ease Dtrs (%)	Gest. Len. (days)	Birth Wt. (kg)	200 Day Wt (kg)	400 Day Wt. (kg)	600 Day Wt.(kg)	Maternal (Milk)
EBVs	+4.2	-1.9	-2.0	+3.2	+39	+89	+90	+7
Accuracy	58%	53%	56%	76%	69%	72%	67%	46%
Av 18 Calves	**-0.7**	**-0.1**	**+0.0**	**+2.5**	**+33**	**+61**	**+66**	**+6**

	Scrotal Size (cm)	Carcase Weight (kg)	Eye Muscle Area (Sq.cm)	Fat (mm)	Retail Beef Yield	IMF %	**Terminal Sire Index**	**Self Replacing Index**
EBVs	-0.1	+64	+5.6	+0.2	+1.4	-0.1	**+116**	**+123**
Accuracy	71%	60%	52%	59%	57%	52%		
Av 18 Calves	**+0.6**	**+44**	**+3.9**	**-0.1**	**+0.8**	**-0.1**	**+75**	**+83**

ABERDEEN-ANGUS BULLS

Lot 50 **KARL SCOTT ESQ** **PEN 269**

FOGGIE DEMETRIUS V235

AI Myostatin. No Carrier **Born 10/02/2019** **(UK522324 200235)**

gs. TC FREEDOM 104 (SS)(IMP)(13977765(US)29)

Sire - RAWBURN BOSS HOGG N630 (ET)(UK562106 201630)

gd. HOFF BLACKBIRD 594 5218 (ET)(IMP)(15141038(US)36)

gs. TE MANIA BERKLEY B1 (AI)(IMP)(VTMB1(AU)36)

Dam - OAKCHURCH DONNA R221 (ET)(UK313622 300221)

gd. OAKCHURCH DONNA L045 (ET)(UK313622 200045)

NOTES: Foggie Demetrius has power and performance. His pedigree and figures speak for themselves. Fantastic bull to use over heifers.

	January 2021 Aberdeen-Angus BREEDPLAN							
	Calving Ease Dir. (%)	Calving Ease Dtrs (%)	Gest. Len. (days)	Birth Wt. (kg)	200 Day Wt (kg)	400 Day Wt. (kg)	600 Day Wt.(kg)	Mature Cow Wt. (kg)
EBVs	+5.2	+3.6	-3.5	+2.4	+50	+95	+124	+116
Accuracy	51%	48%	60%	70%	65%	62%	61%	55%
Avg 19 Calves	**-1.3**	**+0.2**	**+0.5**	**+3.2**	**+39**	**+70**	**+86**	**+82**

	Milk	Scrotal Size (cm)	Eye Muscle Area (Sq.cm)	Fat (mm)	Retail Beef Yield	IMF %	**Terminal Sire Index**	**Self Replacing Index**
EBVs	+27	+2.6	+5.1	-0.8	+0.4	+0.9	+45	+69
Accuracy	52%	54%	45%	50%	46%	44%		
Avg 19 Calves	**+11**	**+1.0**	**+3.8**	**-1.3**	**+1.0**	**+0.1**	**+33**	**+43**

Lot 51 **KARL SCOTT ESQ** **PEN 270**

FOGGIE EDITION V237

Myostatin. Single Version Carrier **Born 15/03/2019** **(UK522324 400237)**

gs. AUCHINCRIEVE ESQUIRE J170(UK522860 501170)

Sire - CRAIGOUR EDITION R165(UK521062 600165)

gd. CRAIGOUR ELYSIA N162(UK521062 300162)

gs. HALLINGTON EVOLUTION K281(UK107067 500281)

Dam - CULRAIN ELLIE P566(UK502753 200566)

gd. CULRAIN ELLIE J379(UK502753 400379)

NOTES: Foggie Edition won his class as a calf at the Stars of the Future and Black Beauty Bonanza.

	January 2021 Aberdeen-Angus BREEDPLAN							
	Calving Ease Dir. (%)	Calving Ease Dtrs (%)	Gest. Len. (days)	Birth Wt. (kg)	200 Day Wt (kg)	400 Day Wt. (kg)	600 Day Wt.(kg)	Mature Cow Wt. (kg)
EBVs	-6.6	-3.1	--	+4.4	+35	+58	+77	--
Accuracy	32%	27%		70%	58%	59%	56%	
Avg 19 Calves	**-1.3**	**+0.2**	**+0.5**	**+3.2**	**+39**	**+70**	**+86**	**+82**

	Milk	Scrotal Size (cm)	Eye Muscle Area (Sq.cm)	Fat (mm)	Retail Beef Yield	IMF %	**Terminal Sire Index**	**Self Replacing Index**
EBVs	--	+1.4	+1.3	-2.7	+1.1	-0.2	+23	+28
Accuracy		61%	38%	46%	38%	33%		
Avg 19 Calves	**+11**	**+1.0**	**+3.8**	**-1.3**	**+1.0**	**+0.1**	**+33**	**+43**

Lot 52 **KARL SCOTT ESQ** **PEN 271**

FOGGIE EDGAR V240

Myostatin results pending **Born 28/03/2019** **(UK522324 700240)**

gs. TE MANIA BERKLEY B1 (AI)(IMP)(VTMB1(AU)36)

Sire - BLELACK KANNY LAD R498(UK521115 603498)

gd. BLELACK KARAMA LADY N094(UK521115 103094)

gs. CULRAIN EVENTER K396(UK502753 700396)

Dam - CULRAIN ELLIE N533(UK502753 400533)

gd. CULRAIN ELLIE J379(UK502753 400379)

	January 2021 Aberdeen-Angus BREEDPLAN							
	Calving Ease Dir. (%)	Calving Ease Dtrs (%)	Gest. Len. (days)	Birth Wt. (kg)	200 Day Wt (kg)	400 Day Wt. (kg)	600 Day Wt.(kg)	Mature Cow Wt. (kg)
EBVs	+0.4	+0.0	--	+4.2	+45	+64	+86	+78
Accuracy	39%	34%		73%	62%	63%	59%	50%
Avg 19 Calves	**-1.3**	**+0.2**	**+0.5**	**+3.2**	**+39**	**+70**	**+86**	**+82**

	Milk	Scrotal Size (cm)	Eye Muscle Area (Sq.cm)	Fat (mm)	Retail Beef Yield	IMF %	**Terminal Sire Index**	**Self Replacing Index**
EBVs	--	+1.8	+3.5	-0.7	+0.8	+0.2	+30	+45
Accuracy		64%	43%	50%	43%	38%		
Avg 19 Calves	**+11**	**+1.0**	**+3.8**	**-1.3**	**+1.0**	**+0.1**	**+33**	**+43**

Lot 53 **MESSRS N F MASSIE & SONS** **PEN 274**

BLELACK KAGE V960

Myostatin. No Carrier **Born 10/04/2019** **(UK521115 603960)**

gs. DUNCANZIEMERE EDWIN J311(UK580222 600311)

Sire - TONLEY JESTER ERIC S318(UK520423 101318)

gd. BLELACK JUBILEE ERICA F442(UK521115 101442)

gs. BLELACK EVERGREAT C689(UK521115 400689)

Dam - CAIRNTON KARISMA K298(UK521159 100298)

gd. WEDDERLIE KARISMA A322(UK560308 100322)

NOTES: Jester's 1st five sons have sold into pedigree herds. Kage's dam is now ten and still very fresh, always produces a small calf at birth.

	January 2021 Aberdeen-Angus BREEDPLAN							
	Calving Ease Dir. (%)	Calving Ease Dtrs (%)	Gest. Len. (days)	Birth Wt. (kg)	200 Day Wt (kg)	400 Day Wt. (kg)	600 Day Wt.(kg)	Mature Cow Wt. (kg)
EBVs	-0.4	+4.4	--	+3.4	+37	+70	+80	+68
Accuracy	43%	38%		77%	65%	68%	63%	53%
Avg 19 Calves	**-1.3**	**+0.2**	**+0.5**	**+3.2**	**+39**	**+70**	**+86**	**+82**

	Milk	Scrotal Size (cm)	Eye Muscle Area (Sq.cm)	Fat (mm)	Retail Beef Yield	IMF %	**Terminal Sire Index**	**Self Replacing Index**
EBVs	+9	+1.1	+3.6	-1.2	+0.9	+0.4	+33	+43
Accuracy	42%	69%	48%	54%	47%	41%		
Avg 19 Calves	**+11**	**+1.0**	**+3.8**	**-1.3**	**+1.0**	**+0.1**	**+33**	**+43**

Lot 54 **KARL SCOTT ESQ** **PEN 272**

FOGGIE EASY ALEX V241

Myostatin. No Carrier **Born 19/04/2019** **(UK522324 100241)**

gs. TE MANIA BERKLEY B1 (AI)(IMP)(VTMB1(AU)36)

Sire - BLELACK KANNY LAD R498(UK521115 603498)

gd. BLELACK KARAMA LADY N094(UK521115 103094)

gs. CULRAIN EVENTER K396(UK502753 700396)

Dam - CULRAIN EYEBRIGHT N550(UK502753 700550)

gd. CULRAIN EYEBRIGHT J378(UK502753 300378)

	January 2021 Aberdeen-Angus BREEDPLAN							
	Calving Ease Dir. (%)	Calving Ease Dtrs (%)	Gest. Len. (days)	Birth Wt. (kg)	200 Day Wt (kg)	400 Day Wt. (kg)	600 Day Wt.(kg)	Mature Cow Wt. (kg)
EBVs	+0.8	+1.0	--	+4.8	+52	+85	+106	--
Accuracy	39%	35%		72%	62%	62%	58%	
Avg 19 Calves	**-1.3**	**+0.2**	**+0.5**	**+3.2**	**+39**	**+70**	**+86**	**+82**

	Milk	Scrotal Size (cm)	Eye Muscle Area (Sq.cm)	Fat (mm)	Retail Beef Yield	IMF %	**Terminal Sire Index**	**Self Replacing Index**
EBVs	--	+1.5	+5.3	-1.5	+1.5	+0.2	+42	+57
Accuracy		65%	41%	46%	40%	34%		
Avg 19 Calves	**+11**	**+1.0**	**+3.8**	**-1.3**	**+1.0**	**+0.1**	**+33**	**+43**

Lot 55 **MR RAY GARDINER & MR CRAIG SMART** **PEN 266**

NEWTON MUCHALLS EOIN V055

Myostatin. No Carrier **Born 28/04/2019** **(UK530691 700055)**

gs. BLELACK EQUITY J127(UK521115 702127)

Sire - BLELACK JURY ERIC P384 (ET)(UK521115 403384)

gd. BLELACK JURY ERICA G783(UK521115 601783)

gs. NETHERALLAN PETER PERSHORE E052 (ET)

Dam - WEETON EYRIE R448 (ET)(UK181671 602448)

gd. BLELACK EYRIE G197 (ET)(UK523132 601197)

	January 2021 Aberdeen-Angus BREEDPLAN							
	Calving Ease Dir. (%)	Calving Ease Dtrs (%)	Gest. Len. (days)	Birth Wt. (kg)	200 Day Wt (kg)	400 Day Wt. (kg)	600 Day Wt.(kg)	Mature Cow Wt. (kg)
EBVs	-4.5	-2.2	--	+4.0	+42	+80	+100	+90
Accuracy	44%	41%		74%	63%	66%	62%	53%
Avg 19 Calves	**-1.3**	**+0.2**	**+0.5**	**+3.2**	**+39**	**+70**	**+86**	**+82**

	Milk	Scrotal Size (cm)	Eye Muscle Area (Sq.cm)	Fat (mm)	Retail Beef Yield	IMF %	**Terminal Sire Index**	**Self Replacing Index**
EBVs	+20	+1.9	+4.2	-3.3	+1.8	+0.0	+37	+47
Accuracy	42%	69%	49%	53%	48%	41%		
Avg 19 Calves	**+11**	**+1.0**	**+3.8**	**-1.3**	**+1.0**	**+0.1**	**+33**	**+43**

Lot 56 **MR RAY GARDINER & MR CRAIG SMART** **PEN 267**

NEWTON MUCHALLS ECHO V064

Myostatin. No Carrier **Born 19/06/2019** **(UK530691 200064)**

gs. BLELACK EQUITY J127(UK521115 702127)

Sire - BLELACK JURY ERIC P384 (ET)(UK521115 403384)

gd. BLELACK JURY ERICA G783(UK521115 601783)

gs. NETHERALLAN PETER PERSHORE E052 (ET)

Dam - WEETON EYRIE P436 (ET)(UK181671 102436)

gd. BLELACK EYRIE G197 (ET)(UK523132 601197)

	January 2021 Aberdeen-Angus BREEDPLAN							
	Calving Ease Dir. (%)	Calving Ease Dtrs (%)	Gest. Len. (days)	Birth Wt. (kg)	200 Day Wt (kg)	400 Day Wt. (kg)	600 Day Wt.(kg)	Mature Cow Wt. (kg)
EBVs	-5.1	-2.2	--	+4.0	+39	+74	+95	+86
Accuracy	43%	41%		71%	62%	66%	61%	53%
Avg 19 Calves	**-1.3**	**+0.2**	**+0.5**	**+3.2**	**+39**	**+70**	**+86**	**+82**

	Milk	Scrotal Size (cm)	Eye Muscle Area (Sq.cm)	Fat (mm)	Retail Beef Yield	IMF %	**Terminal Sire Index**	**Self Replacing Index**
EBVs	+20	+2.3	+3.9	-2.3	+1.5	+0.1	+33	+43
Accuracy	42%	68%	49%	52%	47%	41%		
Avg 19 Calves	**+11**	**+1.0**	**+3.8**	**-1.3**	**+1.0**	**+0.1**	**+33**	**+43**

BRITISH BLUE BULLS

Lot 57 **NEIL R BARCLAY** **PEN 338**

HARESTONE OKLAHOMA

B-20190864 AI Black & White Born 31/08/2019 UK521516502262

gs. VISCONTI DE ST FONTAINE (IS)(I-970731)

Sire - RIDGE DEAN PHYSICAL (SR)(ET)(B-980816)

gd. RIDGE DEAN JESSIE(B-920635)

gs. EMPIRE D'OCHAIN (IS)(SR)(I-20061477)

Dam - HARESTONE KATTY (ET)(B-20150971)

gd. WOODVIEW BESS (ET)(B-20061492)

NOTES: A nice coloured bull. Katy was sold privately to Phil Hallhead. Her grandmother is the famous Woodview Sue.

	December 2020 British Blue BREEDPLAN							
	Calving Ease Dir. (%)	Calving Ease Dtrs (%)	Gest. Len. (days)	Birth Wt. (kg)	200 Day Wt (kg)	400 Day Wt. (kg)	600 Day Wt. (kg)	Milk
EBVs	-0.6	-0.5	--	+2.9	+14	+28	+39	--
Accuracy	46%	39%		55%	53%	52%	52%	
Avg.18 Calves	**-0.8**	**-0.5**	**+0.5**	**+2.3**	**+12**	**+21**	**+31**	**+3**

	Carcase Weight (kg)	Eye Muscle Area (Sq.cm)	Fat (mm)	Retail Beef Yield	IMF %	**BB Carcase Profitability Index**	**BB Pedigree Breeding Index**
EBVs	--	+1.7	-0.3	+0.6	+0.0	**+17**	**+11**
Accuracy		33%	40%	37%	28%		
Avg.18 Calves	**+17**	**+1.5**	**+0.0**	**+0.4**	**+0.1**	**+12**	**+6**

NOTES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