

Autumn 2021

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Both companies are highly innovative
and offer complete solutions for good
health, welfare and productivity
within the herd.




Publisher's Welcome

Welcome to *Beef Farmer* which on this occasion incorporates *Cattle Breeder*, not least for the purpose of promoting the British Cattle Breeders' Club and you will find a preview of next year's conference inside. *Cattle Breeder* focuses on topical and technical issues relating to all aspects of breeding throughout the beef and dairy sectors.

Within this issue we feature two highly innovative companies who offer total and effective solutions to herd health and productivity and we gratefully acknowledge their sponsorship as listed below left.

Ian Duncan, a regular contributor and Highland cattle breeder from Scotland, continues his overview of various breeds and on this occasion takes a look at the Gascons, native to the South of France. We will continue our profile of breeds and in a later issue focus on the development and huge popularity of some of the UK's indigenous breeds.

We are pleased to report that the excellent Sommet de l'Elevage once again took place in early October having been disrupted last year due to the pandemic and the show is well worth a visit and comes highly recommended.

We also remind readers that the World Shorthorn Conference will take place next year in celebration of 200 years of the breed and we will offer more detail in the winter issue.

With best wishes to our readers and contributors



**Howard Venters
Publisher**

Beef Farmer

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*Gascon
cattle finally
arrive in
Scotland!
More to be
revealed
later...*

See page 14



Photo: Unsplash.com



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Getting on top of Cattle Parasites at Housing this Autumn

Controlling internal and external parasites is important at housing, especially with rising feed prices putting pressure on farmers to maximise the growth potential of their cattle.

Although internal parasites such as worms and fluke, and external parasites such as lice, may not be visually apparent at first, they can affect the ability of stock to perform at their optimum, with lice alone

causing production losses of up to 10%.¹

Why is housing a good time to treat stock? Housing provides an ideal time to protect cattle from parasites, says Zoetis vet Ally Anderson. “Particularly when it comes to lice as if the problem is not controlled it can soon get out of hand,” she says.

Lice are often found in low levels in many herds, but when animals are housed,



infestations can rapidly increase. This is due to more cattle being in close proximity and with thicker coats, leading to significant production losses.

NADIS estimates cattle heavily infested by lice can see production losses up to 10%¹ due to reduced feeding time and damaged hides. Scratching may also produce wounds or bruises and can lead to secondary skin infections and skin trauma.

Housing is also an opportune time to treat cattle for fluke and worms because it is unlikely cattle will acquire any new infections during this period as their access to fresh grass is stopped.

Ms Anderson adds: "When a mixed burden of fluke and worms is confirmed, treating at housing enables cattle to be better prepared for the stress and challenges of housing. A Further treatment with a fluke adulticide before turnout means in the spring, cattle can be turned out free of fluke, which will reduce the fluke burden on the pasture and help to protect any sheep on the farm," she says.

Choosing the correct treatment

Choosing the correct treatment is paramount and depends on:

- What the risk is
- What parasites need to be controlled
- Age of fluke present

Ms Anderson says: "It's important to know the stage of fluke you are trying to treat as some fluke treatments only kill adults, meaning immature fluke will still be present and these will continue to cause damage as they migrate through the liver. These will go on to develop into adult fluke and can cause chronic liver fluke disease which will impact productivity.

CYDECTIN TriclaMox Cattle Pour-On is a combination fluke and worm pour-on which manages mixed burdens in one treatment. It contains moxidectin, a potent and persistent wormer, and triclabendazole, which offers effective control of late immature and adult fluke in a pour-on combination.

The product also comes with a lice free guarantee from housing to turnout (licensed for chewing and sucking lice) and has a rainfast formulation. This means it can be applied in any weather, so even if there is rainfall before or after treatment it will not affect the efficacy of the product.

Ms Anderson says: "Lice should not be a problem that is just accepted, as they too can have a detrimental impact on cattle performance. Something so small as a louse can cause production losses and have welfare implications in a herd, so it is important to make sure you are on top of it at housing this autumn."

Aside from treatment, some other management changes can be implemented to help prevent a lice infestation this winter:

NADIS estimates cattle heavily infested by lice can see production losses up to 10% due to reduced feeding time and damaged hides.



“Something so small as a louse can cause production losses and have welfare implications in a herd.

1. **Biosecurity:** when buying in cattle make sure they have been treated and are free of lice before incorporating them into the herd.
2. **Clip coats:** This is often done down the back to prevent overheating, but it can also reduce the lice burden as they thrive in thick coats.

If you would like to get the most out of

your animals this autumn, then testing for parasites and investing in the correct treatment is the best way forward. For more information, including details of the lice-free guarantee, please speak to your animal health adviser. ■

Reference

1. <https://www.nadis.org.uk/disease-a-z/cattle/ectoparasites-of-cattle/>



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zoetis

New national qualification for animal health professionals



Natalie Parker,
Head Vet Tech

A level-five apprenticeship for Vet Techs, approved by the government Agricultural and Environment apprentice board has been launched. The qualification will enable the establishment of a standard skill level for all Vet Techs employed by UK veterinary practices, providing assurance to farmers and consumers that any Vet Tech visiting their farm is trained to carry out on-farm health related tasks to an exemplary standard.

Several veterinary practices have collaborated to launch the qualification, including VetPartners, XL Vets and independent farm veterinary practices.

VetPartners' Natalie Parker, Head Vet Tech at LLM Farm Vets, explains how the qualification can be achieved.

"Due to the practical nature of the job, the apprenticeship is ideal as it is designed for people who are already employed by a vet practice as a Vet Tech and it will also help a vet practice thinking of setting up a Vet Tech service with full training.

"80% of the learning is practical within the vet practice and farm-based, with the remaining 20% a blend of online learning and two or three intensive sessions per year, to be provided by the colleges and universities offering the qualification. This minimises the impact of travel to face-to-face training.

"The qualification takes two years to complete. Final assessments will be carried out independently by an end point assessor, involving vet observation of apprentices carrying out a range of tasks," Natalie adds.

Harper Adams University is currently finalising its apprenticeship offer with a view to launching in autumn 2021. Reaseheath College and The College of Animal Health and Welfare are also set to offer the qualification.

"The new standard will enable a career as a Vet Tech to be seen as a profession with a career path, and by making training opportunities available, it should contribute to the roll-out of Vet Tech services at more farm practices.

"In turn, this can contribute to the improvement of animal health standards on UK farms, as tasks like vaccine administration can increasingly be carried out by trained animal health professionals, who have the protocol put in place by a vet and the equipment to store medications at the correct temperature."

Jon Reader from Synergy Farm Health and part of the XLVets Vet Tech working group commented that employing Vet Techs as part of the Vet-led team is an integral part of the package offered to farmers.

"Farmers recognise the huge value that a skilled Vet Tech brings to their daily management by providing a trained person with the correct equipment, training and back up. The apprenticeship helps farmers and vets alike, to ensure the health standards on our

“Farmers recognise the huge value that a skilled Vet Tech brings to their daily management by providing a trained person with the correct equipment, training and back up.



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farms are second to none and never compromised,” he says.

“So far there has been a lot of interest in the qualification and the feedback from current Vet Techs is also very positive,” Natalie adds.

“By completing the qualification, even the most experienced Vet Techs will have the opportunity to understand more about new

procedures and be better placed to explain things to our farm clients.

“For those already employed as a Vet Tech, we’re in the process of setting up an association of Vet Techs. If you’re interested in becoming a member, or to find out more about the qualification, contact info@vettechs.org.uk for more information,” says Natalie. ■

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The importance of trace minerals in cattle – demand versus supply

“At critical times during the production and breeding cycle, such as calving, breeding, vaccination and even housing, there is an increased risk of oxidative stress and a higher requirement for trace minerals to help combat this.

Trace minerals are key to support the body's immune system and are essential components of the antioxidant enzymes that combat oxidative stress.

Immunity

Trace minerals are essential for the body's immune system and to optimise health:

- They are structural components of body organs and tissues which form physical barriers to infection e.g. skin, hooves etc.¹
- They are a key part of immune cells required to mount protective responses.²
- They are required for the development of antibodies.³

Oxidative Stress

Trace minerals, in particular Zinc, Copper, Manganese and Selenium are essential components of different antioxidant enzymes required to combat oxidative stress in the body.^{4,5}

Oxidative stress is an imbalance of free radicals and antioxidants, which can lead to cell and tissue damage as shown in Fig 1.

So trace minerals are really important to the health and performance of cattle, indeed it has been shown that when the trace mineral status of cattle declines, immunity and enzyme functions are compromised first, followed by a reduction in growth and fertility and finally a decrease in normal growth prior to clinical deficiency as shown in Fig 2.⁷

Trace mineral demand

The demand for trace minerals is not static. At critical times during the production and breeding cycle, such as calving, breeding, vaccination and even housing, there is an increased risk of oxidative stress and a higher requirement for trace minerals to help combat this. So potentially we need to be able to boost the supply of trace minerals during these high demand periods to ensure cattle do not become deficient.

Trace mineral supply

Currently, trace mineral requirements for cattle are primarily provided through their diet and various forms of oral supplementation. Whilst international guidelines exist in terms of trace mineral feeding levels, there are a number of factors which can result in poor availability:

Low /variable intake

- Most production systems in the UK rely on grass and grass based forages. These are generally low in key trace minerals including Zinc, Copper and Selenium.
- Intake can vary dramatically with dominant animals consuming more than submissive members of the herd.
- At times of stress appetite and intake is often reduced

Poor bioavailability

- Antagonist minerals such as Sulphur, Molybdenum, Iron and Calcium are often high in feed, forage and water. These act to tie up minerals, further reducing their absorption and availability.⁸
- As a result of interactions which occur in the rumen, orally administered trace minerals are poorly absorbed, see Fig 3.⁹ So ingestion is not the same as absorption

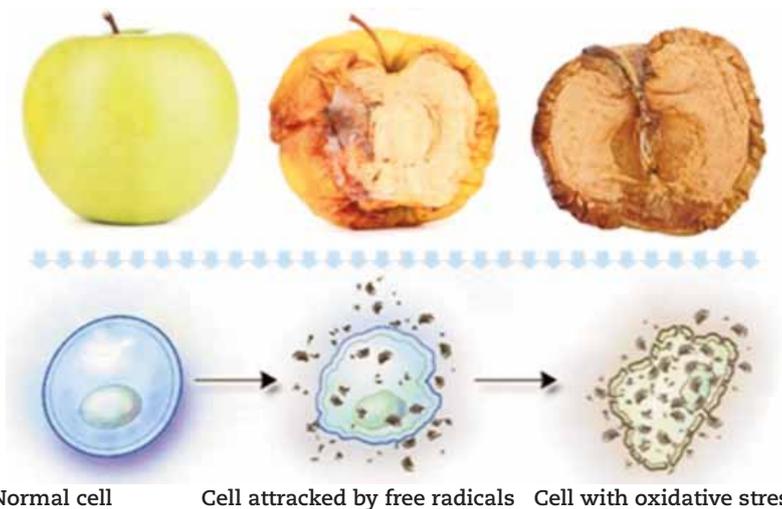


Fig 1. Showing the visual impact of oxidative stress on cells and tissues

During normal oxygen metabolism by products called free radicals are produced. Free radicals damage cells. Antioxidant enzymes, are required to neutralise these free radicals, but if not present in enough quantities, oxidative stress results, impacting the health and performance of cattle.⁶

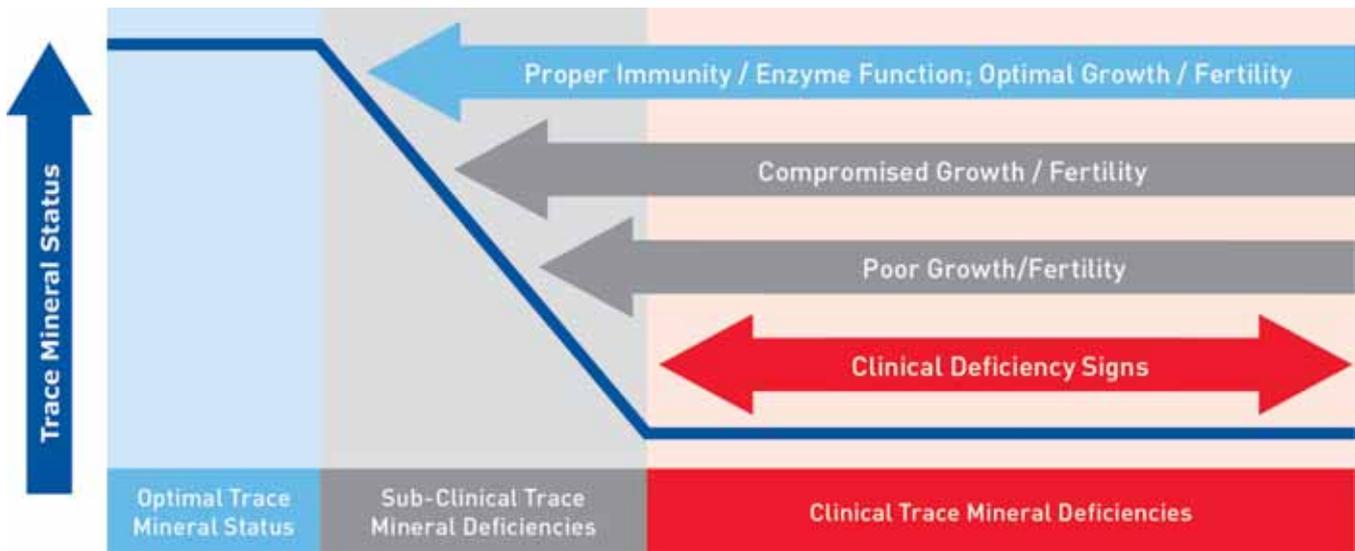


Fig 2 Consequences of sub-optimal trace mineral levels in livestock

When trace mineral status of cattle ↓
 The immunity of cattle ↓ fertility ↓ growth ↓
 It is therefore critical that cattle do not become deficient in trace minerals

and achieving recommended levels in the diet does not always mean trace mineral adequacy.

MINERAL	ABSORPTION
⁶⁰ Zn	10 - 20%
⁶³ Cu	1 - 5%
⁵⁵ Mn	0.15 - 1.2%
⁷⁸ Se	34%

Fig 3. Trace mineral absorption levels

Furthermore animals under stress, e.g. through disease challenge, have been shown to exhibit high levels of mineral excretion.¹⁰

So the availability of trace minerals through the diet and oral supplementation can vary dramatically. This coupled with the increased demand for trace minerals at critical times in the production cycle, means that, even in apparently well supplemented animals, at these critical high demand periods, a trace mineral gap can occur between the trace minerals required for optimum health and performance, versus those available.

The only way to avoid poor absorption and availability and to quickly overcome this

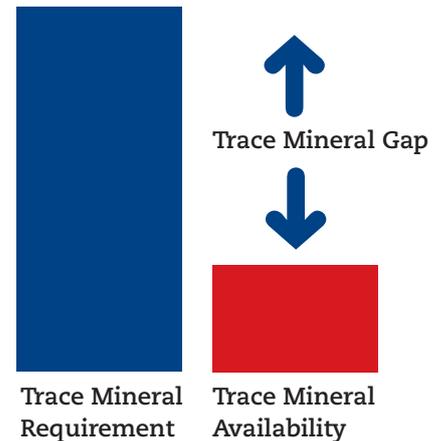
damaging trace mineral gap is to administer trace minerals by injection. Multimin™ is a unique combined trace mineral injection for cattle, containing zinc, copper, manganese and selenium. As it is administered by injection it is not subject to interactions and absorption effects in the rumen, it also acts rapidly, reaching peak levels in the blood after only 8 hours¹¹ and the liver after 24 hours.¹¹ So Multimin™ provides a fast, easy and accurate way to boost essential trace minerals ahead of times of high demand, to help improve cattle health and performance.

Indeed in recent years trials have shown that boosting trace mineral supply ahead of high demand periods e.g. calving, breeding and vaccination can significantly improve the health and performance of cattle.

Pre-calving and pre-breeding

Trial work has shown that strategic injectable trace mineral supplementation pre-calving and pre-breeding can help to improve calving distribution, with 77.5% of treated cattle calving in the first 20 days versus 65% in the control group.¹²

Herds with a tighter calving interval have higher weaning weights and



77.5%
 calving in the first 20 days versus 65% in the control group

MULTIMIN solution for injection for cattle. Further information available from Virbac Ltd, Woolpit Business Park, Windmill Avenue, Woolpit, Bury St Edmunds, Suffolk, IP30 9LP. Tel 01359 243243. UK POM-V. Advice on the use of this medicine, or alternatives, must be sought from your veterinary surgeon. Use medicines responsibly www.noah.co.uk/responsible.

lower feed costs. Indeed a compact calving pattern is one of the key performance indicators on farm and a major determining factor for farm profitability, so such a treatment response could have a significant impact on herd performance and profitability.¹³

At vaccination

Stressors such as vaccination can exacerbate trace mineral imbalances which could lead to reduced response to vaccines.¹⁴ Even in adequate trace mineral status, mounting an immune response to a vaccine can deplete trace mineral stores, meaning vaccinated cattle may not achieve effective inoculation or response to a booster.¹⁵

In recent years, trials have shown that cattle treated with injectable trace mineral supplementation at vaccination produce significantly higher antibody titres. So treatment can help improve the vaccine response in herds.^{15,16,17}

Growing calves

Proper mineral nutrition is essential throughout the growing period if calves are to achieve their targeted growth rates. Diseases of significant importance: diarrhoea, perinatal mortality and vaccine failure have all been linked to inadequate trace mineral status in calves.¹⁸

Indeed it is well reported that the trace mineral status of new-born calves is directly related to that of their dams. Significant mineral transfer happens in the last trimester of pregnancy, so at birth, the liver's trace mineral levels in calves are typically higher than those of their dams. However, post birth, cow's milk is an exceptionally poor source of trace minerals and as calves grow, they rapidly deplete their trace mineral stores.¹⁹ Indeed by 56 days old, calves have used up to 75% of the trace minerals they received from their dams' in utero.

Studies using injectable trace mineral supplementation with Multim in calves have shown that treated calves had 8% lower incidence of diarrhoea and 7.5% lower incidence of pneumonia and/or otitis than non-treated calves. They also had improved immune function.²⁰

Given that the cost of

pneumonia is estimated to be at least £82 per suckler calf,²¹ and that the cost of scour is at least £123 per scouring calf and £37 per calf born,²² treating calves could deliver a very healthy return on investment.

So it is prudent to speak to your veterinary surgeon today about how boosting trace mineral supply could benefit your herd. ■

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8%

lower incidence of diarrhoea

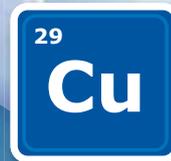
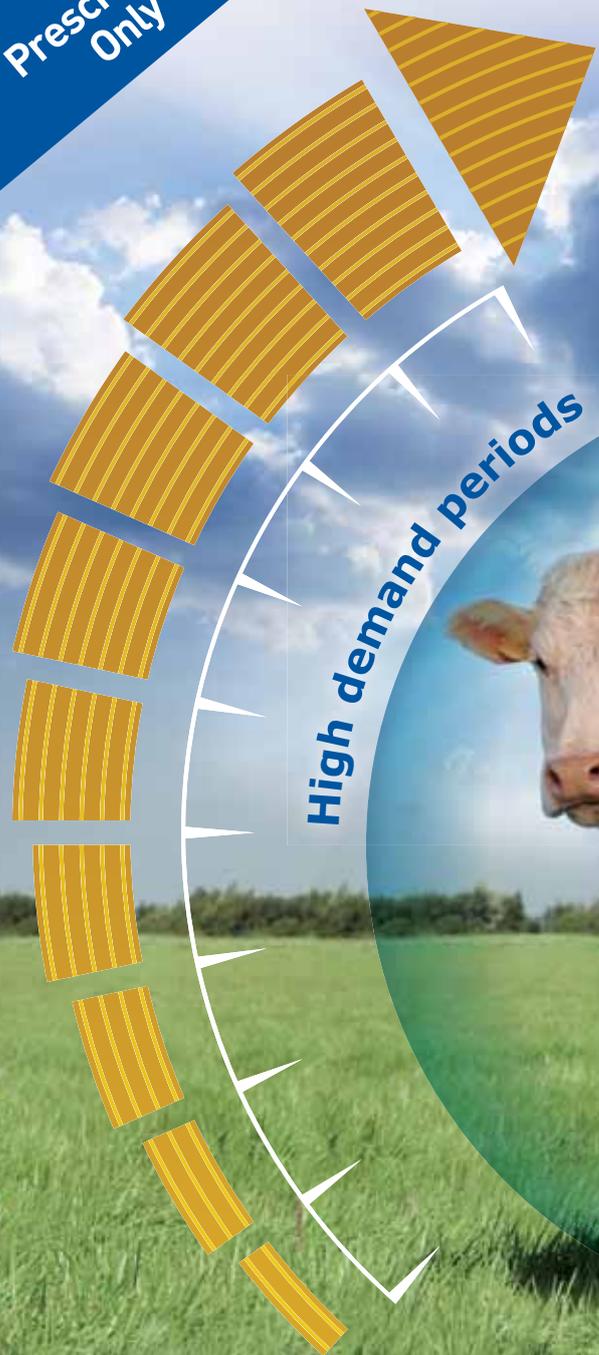
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lower incidence of pneumonia and/or otitis

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They do say travel broadens the mind...



By Ian Duncan

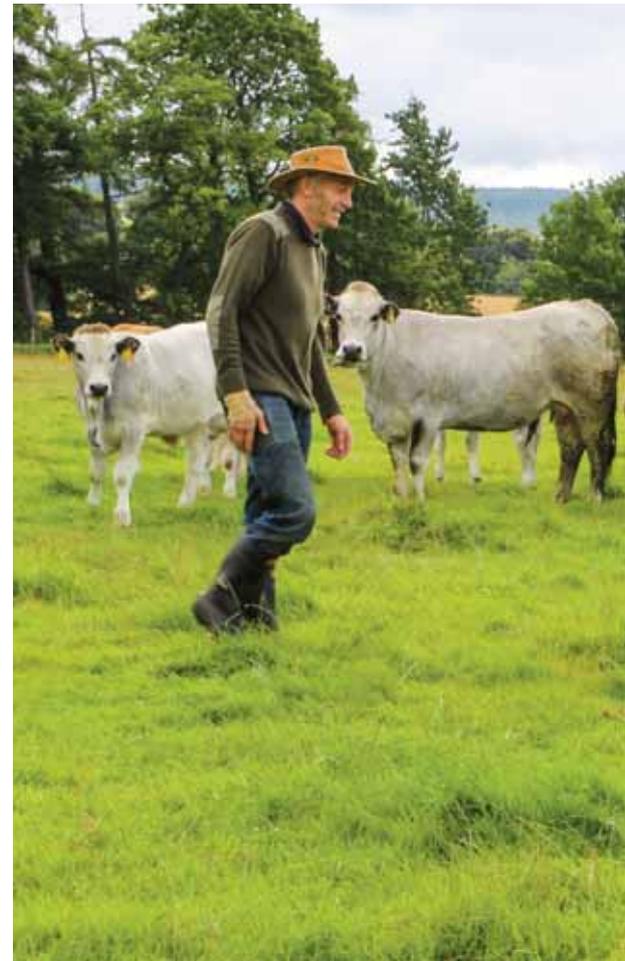
“As the beef industry adapts to processors’ requests for lighter carcasses and climate change requirements demanding lower inputs, Gascons will become more common.

Travel exposes the traveller to new experiences, different languages, food, wine and cultures. From a farming perspective it introduces you to new methods and breeds. While attending the 2019 Sommet de l’Elevage in Clermont Ferrand I first encountered the Gasconne des Pyrénées breed. (better known to us as Gascons).

The Gascons are considered one of the rustic French breeds, those being Aubrac, Gasconne des Pyrénées and Salers. (Salers of Cantal featured in *Beef Farmer* issue Winter 2020-21).

The Gascons are a rustic breed originating from the French side of the Pyrenees mountains. They are of moderate frame size with cows standing circa 1.35 meters (4 feet 4 inches if you prefer) at the withers and weighing 600 to 700 kg. Bulls typically 900 to 1,000kg. Always grey in colour, black hooves and muzzle with bulls of dark colouring over the shoulders and head. Birth weights are between 35 to 40kg. Calves are born light tan changing in colour to grey as they reach 4 to 5 months of age.

They are tolerant to wide fluctuations in temperature typical of the Pyrenees, spending the summer months in the high mountain valleys or “Cirques” often reaching 30°C during the day to below zero at night and are uniquely suited to high altitude and exten-



sive systems but also perform well in intensive feeding systems common in the UK.

Gascons at Sommet 2019

The Gascon show and presentation at the 2019 Sommet de l’Elevage is available at the YouTube link below: www.weloveagri.fr/watch?v=ChIaYnEK

The Pyrenees is a range of mountains





Regular readers of *Beef Farmer* and *Cattle Breeder* will recognise Ian Duncan as a regular contributor to these publications. His visit to the excellent Sommet de l'Élevage held annually in Clermont-Ferrand, France resulted in his acquisition of Gascon cattle.

This issue takes a look at the Gascon breed and we will continue our focus on both indigenous and continental breeds in future issues.

forming the natural and official boundary between France and Spain, comprising 129 distinct mountain summits over 3,000 metres and stretches from the Atlantic in the west to the Mediterranean in the east.

The Pyrenean landscape includes high rugged mountain peaks dropping in height to the more fertile land around the main cities of Toulouse, Lourdes and Pau to the north and Perpignan to the east on the

Mediterranean coast.

Groupe Gasconne Villeneuve-du-Paréage and Test Centre

The Gascons have their own farm and test centre located at Villeneuve-du-Paréage (just south of Toulouse). Each October the centre takes in circa 80 weaned bull calves and comprehensively records their age, weight and their physical dimensions,





height, body length, hip width, chest circumference. During the winter they are performance recorded and those passing the rigorous selection criteria are presented for sale the following March. Selecting Bull calves for the Test Centre: www.youtube.com/watch?v=ZuuebqibcrQ

Not all bulls pass the rigorous selection criteria demanded of Groupe Gasconne.

It's Online Man!

From the 2020/21 entry 77 bulls arrived at the centre and 45 bulls were presented for sale. Including 16 heifers served by AI to top ranked Gascon bulls.

The sale was conducted online with individual videos for each bull loose in a show ring managed by Group Gascon staff. From these videos it was easy to get a feel of the animal's size, shape and temperament. All bulls are presented with their weights for age and their physical measurements shown on a circular clockface chart which I consider easier to read and a more representative presentation of the animal's characteristics than bar chart EBVs. Points above the circle

represent physical measurements above the breed average, conversely points below the circle show those points below the breed average.

Some may remember Victor Kiam, a dynamic American entrepreneur who liked a brand of electric shaver he received as a gift..."I liked it so much: I bought the Company" ... well the author liked the Gascons so much he bought a young bull named Rosignol and two in calf heifers (AI'd to top ranked bull Passey) from Group Gascon – I will keep readers of this magazine posted as to how the story unfolds – for pedigree breeding and crossing with Black Highland cows.

From the 2021 Group Gascon sale, two bulls and two heifers were destined for Scotland.

Gascons strong presence in Northeast Scotland ...

During research into my Gascon purchases I found that the breed, although currently small numerically in the UK, (600 registered cows in the UK, 18000 cows in France) has already a significant following in the north-

“ Typical growth rates comparable to the other Continental breeds reaching 360 to 400 kg carcass in 20 months at U & R Grade.





east of Scotland with two major herds. The Gascons found to be suited to the cooler wet climate often found in northern latitudes ... the Scottish weather!

Gascon Pure breeding ... Ordhill Farm, Elgin (c/o Mr Willie Hendry) specialises in hi-health pedigree breeding with the emphasis on breeding heifers. The males are mostly castrated and finished on farm.

Trend for lighter carcasses.

Typical growth rates comparable to the other Continental breeds reaching 360 to 400 kg carcass in 20 months at U & R Grade.¹ The medium frame size suits finished animals being within the current carcass requirements of 380 to 400 kg required by many processors.

In France, males are frequently left entire and exported to Italy. A higher price is achieved via the famed "Label Rouge" mark for bullocks. The finished castrated males achieve a premium price and supply restaurant demand from Paris to Toulouse.

Double muscling in the breed.



The Myostatin (Mh) gene responsible for double muscling is managed to maintain the traditional characteristics of the breed for easy calving. However, as a beef breed Myostatin is utilised for commercial qualities in the breed. Detailed information at: <http://www.gascon.org.uk/technical-info>

Commercial Beef ... Rait Castle Farm, Nairn (c/o Mr James Beattie)

James Beattie, uses the Gascon cow as a

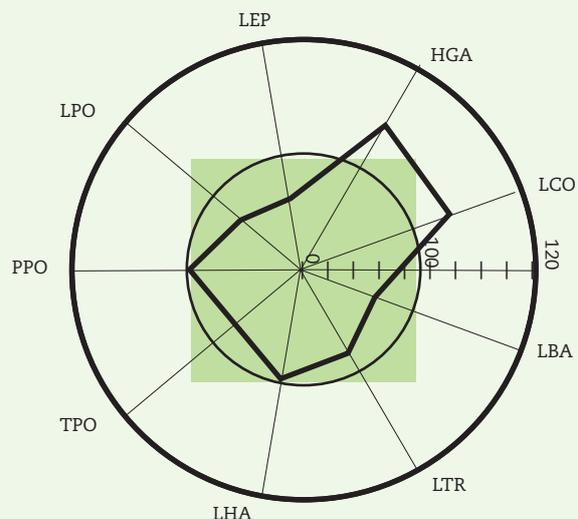
1. Carcass information from Ordhill Farm, Elgin (c/o Mr Willie Hendry)

Rosignol's Measurement Chart

A tall, long and narrow bull as shown by his chart ... easy calving I hope?

Bred in Mosset, Occitanie, Pyrénées-Orientales, France

DOB 8 November 2019
 Birth weight 37kg
 210 days weight 332kg
 400 days weight 478kg
 Myostatin Test: +/- (no Myostatin gene present)



HGA	Height withers	LHA	Hip Width	TPO	Chest Circumference
LBA	Basin length	LPO	Chest width		
LCO	Body Length	LTR	Width Trochanters		
LEP	Shoulder Width	PPO	Chest Depth		



“A rustic breed, cows frequently outwintered, medium frame size and temperature tolerant with similar growth rates to the other better known French breeds.

mid-sized out wintered easy calving cow for commercial breeding with Charolais and Limousin bulls. Cows calve in the autumn and remain outside all year round and are brought inside two weeks before due date, once calved are then returned outside. A Gascon bull is used to produce female replacements.

Kelpie Dogs

The Beattie's are very international and are also renowned breeders of working Kelpie herding dogs that originate from Australia. The Kelpie's original stock came from the far north, Sutherland. When the Sutherland shepherds moved to Australia in the 1800s, they took their dogs with them which interbred with local herding dogs, the result was the Kelpie.

The Kelpie is also a mythical creature in Scottish folklore that lures those crossing

rivers to their deaths. The Australian Kelpie dog is a strong mid-sized robust herding dog ideally suited to working cattle...ask James, he will tell you all about them!

Sports Stars ...

Gascon cattle have a strong regional affiliation, here paraded before a game at the home of top rugby team Toulouse in the south of France where Gascon beef is served to players, supporters, and guests. <https://www.youtube.com/watch?v=DCH6UEvmjNs>

A visit to Sommet de l'Élevage always presents new farming opportunities

My visit to the Sommet in 2019, initially a visit to see something different and have a busman's holiday in France, introduced me to the Gascon breed.

The Gascons' attributes lend themselves to the northern climate. A rustic breed, cows frequently outwintered, medium frame size and temperature tolerant with similar growth rates to the other better known French breeds. They are working successfully for both Ordhill and Rait Castle farm. The Gascons can produce a 400 kg carcass within two years that meets current abattoir requirements for lighter carcasses.

As the beef industry adapts to processors requests for lighter carcasses and climate change requirements demanding lower inputs, Gascons will become more common. ■



A special note of thanks to Pauline Milton, Gascon UK Breed Secretary and breeders James Beattie and Willie Hendry for their help in compiling this article.

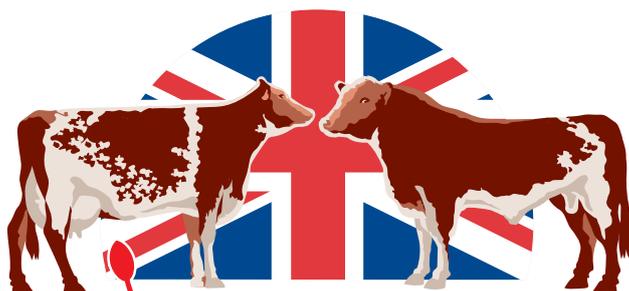
Cattle Breeder

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Jessica Tomley – Livestock Buyer Woodheads, Morrisons. M: 07814 075468 E: Jessica.tomley@morrisonspc.co.uk

Highlights

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Publisher's Welcome

Welcome to *Cattle Breeder*, which on this occasion we have incorporated within *Beef Farmer*, not least to promote the British Cattle Breeders' Club and its Conference to a wider audience across both dairy and beef sectors.

Cattle Breeder focuses on all aspects of breeding technologies throughout the beef and dairy industry and supports the Club and its Conference in the process. You will see a preview of next year's Conference inside and all best wishes go to Dr Karen Wonnacott who succeeded Clive Brown and heads the Conference to be held in January next year.

We also take a look at the causes and control of scours in calves which can significantly impact on health and productivity within the professional cattle breeding sectors.

We look forward to catching up with our industry colleagues over the next few months at the shows and industry events as the world starts to return to some form of normality.

With best wishes to all,

Howard Venters
Publisher



Cattle Breeder

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*Calf Scour:
causes and control*

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British Cattle Breeders Club

Annual conference goes virtual for 2022



We are pleased to announce that our next conference will be held virtually on Tuesday 25th January 2022. Following on from the resounding success of our first ever virtual Conference, we took the difficult decision to opt for the same format again this year. With so much uncertainty still surrounding Covid-19, we felt it was the safest decision for our speakers, delegates and for the future of the Club. It goes without saying that I will be very sad not to be seeing you all in person!

It is a huge honour and privilege to be Chairman of the Club this year and I am so looking forward to **A Breath of Fresh Air** the theme chosen for the conference, which will reflect on the club's aspiration to focus on positivity, resilience and opportunity. We have secured some incredible speakers from home and abroad and look forward to delving deeper into the technological advancements and practical applications of science to move forward breeding and genetics, as well as discussing important subjects for our industry such as mental health and resilience. We have a great evening panel lined up for you too, hosted by our very own President, Professor Mike Coffey so please do join in for the discussion on the **Future of Cattle Breeding: 2030 and beyond**.

It has been a challenging time for every-

one, but we hope that we have developed a Conference programme that will provide a great platform for exchanging new ideas, generating debate and discussion, and meeting old and new friends (albeit virtually)!

As a Club, we pride ourselves on attracting a huge diversity of farmers, researchers, students, lecturers and industry professionals, in addition to the next generation of young people looking to make their way into the industry. This provides the perfect opportunity for discussing and sharing ideas, challenging and encouraging debate and driving businesses forward. Our speakers this year will push the breeding, genetics, and environmental envelope even further and will take sound science and show us how to put it into practice on farm.

I would like to thank all our sponsors for their support, which has enabled us to deliver the Conference, and also all of those who have supported us as we adapt to the new platforms and technologies in our ever-changing world! Many thanks to our speakers, session chairs and technical support behind the scenes and thank you also to the BCBC Committee, particularly my Vice Chair, Amy Hughes, Treasurer, Andy Dodd and our amazingly patient and fantastic Club Secretary, Heidi Bradbury, who has managed to pull everyone and everything together in very challenging circumstances.

I believe that it is a fantastic time to be involved in beef and dairy and we have a great many opportunities to capitalise on. I hope that you enjoy BCBC 2022 A Breath of Fresh Air and that you log out feeling enthused, motivated, informed and inspired to embrace the technological developments, strive to keep moving forward and feel (as I most certainly do) very lucky to be working in our fantastic cattle industry! ■

Karen Wonnacott
BCBC Chair



BCBC Keynote Speakers announced for 2022 virtual conference

The 2022 conference will include beef and dairy specific presentations with keynote speakers who will address issues that are pertinent to both sectors



PROF. JUDE CAPPER
ABP Chair of
Sustainable Beef &
Sheep Production,
Harper Adams
University

From the first AI to technologies of the future – what role do genetics play in improving sustainability?

The cattle industry has made huge gains in breeding and genetics over the past 70 years, from Sir John Hammond's revolutionary work, including pioneering studies on artificial insemination, to the genomic tools and evaluations available today. So just how far have these gains brought us in terms of improving sustainability, and what challenges and opportunities do we face in the future?



STEVEN MCLEAN
Head of Agriculture
& Fisheries,
Marks & Spencer
Adapting to change in order to succeed

We are facing huge change in British agriculture. Climate disruption and pressure to achieve net zero, developments to agricultural support, changing consumer expectations and new international trade arrangements will all impact on livestock farmers, who will need to adapt their businesses to succeed. Steve McLean, Head of Agriculture & Fisheries at M&S Food will explore what today's consumers want from farmers and how this, along with other factors, will impact technical innovation at farm level as farmers adapt to the changing market requirements.



SETH WAREING
Business Manager,
Beef Improvement
Group
The impact of management and breed on the carbon

footprint of beef

The UK beef industry is in a unique position to deliver quality beef with a low carbon footprint, sustainably, ethically and profitably for all members of the supply chain. Production efficiencies, carbon efficiencies and profitability do not need to be opposing forces. By utilising the best management practices and genetics beef producers can have a big impact on the carbon produced by their stock.



MARCO WINTERS
Head of Genetics,
AHDB
Breeding for Net Zero

Genetics will play a key role in the industry reaching its Net Zero target. The good news is that those who have been using the ϵ PLI index, will already have contributed significantly towards this target. But new AHDB dairy breeding indexes are now available to help us more precisely target future genetic selection. Do you know how the Maintenance index, Feed Advantage and Enviro-Cow index can help you?



SARAH HAIRE
Head of Agriculture
for Dawn
Meats/Dunbia &
Chair of UK Cattle
Sustainability
Platform

Improving the sustainability of Beef across the supply chain

Sustainability has been at the heart of our business strategy for over 10 years and we are working across the supply chain with customers and suppliers, as well as collaborating with industry bodies such as the ERBS and UKCSP, to ensure we produce a product that delivers against the growing expectations of our end consumers whilst supporting farmers in creating a thriving agricultural sector.



ANDREW RUTTER
Partner & Herd
Manager,
Clayhanger Hall
Farm

*Form versus Function
– How I am using*

genetics to deliver a cow fit for purpose at Clayhanger

After nearly 20 years working for a genetics company, I had the opportunity to come home and take over the responsibility of breeding the herd of nearly 400 cows plus followers. The remit I set myself is; How can I breed her to be more efficient, more environmentally friendly, easier to care for, more sustainable and more profitable... and what will she look like?



BILLY O'KANE
Farmer and Vet,
Crebilly Farm
*Carbon Audit of a
250 Cow Suckler to
Beef Herd. Release v
Sequestration*

Beef production in the UK and Climate Change. Are we the problem or are we part of the solution? In 2021, with the assistance of a PhD student we undertook a detailed Carbon audit on our 500-acre Suckler to Beef farm. After a literature review

and physical measurements, we calculated our total farm Carbon output and total farm Carbon Sequestration using both GWP 100 and GWP*. And the result was....



CLAIRE PHYN PhD
Senior Scientist,
DairyNZ Ltd
Unlocking the secrets to improving cow fertility genetics

This presentation will outline key findings from a long-term research programme investigating novel traits to improve genetic merit for fertility. In particular, the potential to use earlier-in-life phenotypes, such as timing of puberty, as predictor traits to accelerate genetic improvement in fertility will be discussed along with using activity monitoring devices to measure traits related to oestrus characteristics and resumption of cycling postpartum.



NIGEL OWENS MBE
Former International Rugby Union Referee and Beef farmer
Building mental resilience for a positive farming future

Nigel will share his experiences of building and nurturing mental resilience, both during his career as an international rugby union referee and now, as a beef farmer.

View the full programme and register your place online at www.cattlebreeders.org.uk

Announcing a new look for BCBC following recent competition

The British Cattle Breeders Club recently invited students to design a new BCBC logo with a fresh, and exciting look, that appeals to all ages of our industry and keeps the values of the club at heart.

We are pleased to announce our winner is Annie Stones with her logo consisting of the union jack within a cow's head. Annie recently graduated from Harper Adams University with a BSc. Honours degree in Animal Production Science. Her passion for agriculture comes from living on the family farm where they farm around 90 commercial suckler cows and 420 breeding ewes. She takes enormous pride in showing her homebred sheep at local



shows, which she admits has certainly brought out her competitive side. She currently works for a local feed company and explained how she enjoys getting out onto different types of farms, seeing how similar people farm successfully, in very different ways.

"I am delighted that my design impressed the judging panel and that they felt I had encapsulated what the club stands for" said Annie, "my thinking behind the logo was to keep it simple and to merge Britain and cattle together without making it too complicated, which I think reflects how cattle breeders in Britain, like myself, can achieve a high standard of cattle by

farming in the simplest of ways" explained Annie.

The BCBC Club Chair, Dr Karen Wonnacott stated that "The standard of submissions for our logo competition was extremely high and we are very grateful to everyone that took the time to enter. The panel chose Annie's logo as the winner as we all felt that it embodied the British Cattle Breeders Club in a clean and professional format and will help to raise the profile of the Club ensuring that we remain progressive and relevant to all."

The two runners up were Niamh McGrath and William Awan, congratulations to them both for making the final and for submitting their fantastic designs.



Learn more about BCBC who we are and what we do...

The British Cattle Breeders Club is a unique 'family' of farmers, researchers, industry and students – all dedicated to the advancement of breeding and genetics in dairy and

beef cattle. We pride ourselves on an unrivalled camaraderie that welcomes all and encourages lively debate and discussion in a relaxed and enjoyable way.

For further information on the club and conference visit our website www.cattlebreeders.org.uk or contact the secretary heidi.bradbury@cattlebreeders.org.uk

Follow us on

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British Cattle Breeders Club

Virtual Conference
Tuesday 25th January 2022

www.cattlebreeders.org.uk

President: Mike Coffey
Chair: Karen Wonnacott
Secretary: Heidi Bradbury



A Breath of Fresh Air

Register to Access the 2022 Virtual Conference

Membership/Delegate Fee of £45 gives access to
the Virtual Conference & Membership of BCBC for 2022

Title: Delegate Name:

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Email (Required to access the conference) :

Please Circle: Farmer Industry Research Breed Society Other

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- By Card over the phone, please forward the completed form and call the secretary on 07966 032079
- By BACS - CAF Bank; Sort Code: 40 52 40 Account: 00023696
- By Cheque made payable to British Cattle Breeders Club and post with completed form to: BCBC Underhill Farm, Glutton Bridge, Earl Sterndale, Buxton, Derbyshire, SK17 0RN

Delegate signature:

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I agree to the terms specified and give consent to BCBC to use my data for BCBC purposes as per the BCBC Privacy Policy (available at www.cattlebreeders.org.uk)



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Causes and control of calf scours in beef and dairy herds

Why is calf scour so important?

Calves are the future of the herd and often represent decades of work on herd development and genetics. Diarrhoea in calves is a common disease which may be severe, indeed it is the leading cause of morbidity and death in calves under one month of age¹ and accounts for roughly 50% of all calf deaths in the UK. Both beef and dairy farms are affected and the disease can cost up to £200 per affected calf,² so preventing calf



scour is very important to the health, performance and productivity of every herd.

How to control calf scours?

Control of calf scours on farm can be a challenge, as the disease is multifactorial and the occurrence of clinical signs depends on the interaction between a number of factors:

- the pathogen(s) (pathogenicity, infectious dose, level of exposure)
- the environment (mixing with older animals, ventilation, hygiene) and
- the calf (colostrum intake, health status, stress, nutrition)

The pathogen(s)

Diarrhoea may result from non-infectious causes, often relating to the management of calf nutrition, for example the poor mixing, incorrect concentration or incorrect temperature of milk replacer, overfeeding or concentrate overload. Additionally diarrhoea may result from infectious causes e.g. viruses and bacteria. Some common infectious causes are:

Bacterial causes: *E. coli* (K99)

In this case the disease characteristically affects calves aged 0–7 days old when there is sudden onset of profuse yellow/white diarrhoea causing rapid and severe dehydration. Calves can quickly become recumbent. Accumulation of fluid in the abomasum and intestines gives the abdomen a bloated appearance.³

Viral causes: Rotavirus and Coronavirus

Calves are most commonly affected with either or both viruses in the first 2 to 4 weeks of life, typically rotavirus occurs slightly earlier; there is an acute onset of diarrhoea with very watery yellow/green faeces. Typical early signs include a reluctance to stand and drink, mild depression and salivation. Calves become dehydrated with sunken eyes and tight and inelastic skin.³

Cryptosporidiosis

Cryptosporidium parvum is a protozoa that invades and damages the intestinal epithelium, resulting in diarrhoea due to mal-

absorption. It is able to undergo auto-infection and so can increase to high numbers in the host very rapidly. Calves are typically affected in the first month of life, with profuse yellow/green diarrhoea and mucus present. Affected calves may have a dull, tucked-up appearance and although dehydration is often only mild, calves can rapidly lose condition. Cryptosporidia infection is commonly seen alongside viral causes of scour, which can increase the severity of clinical signs and mortality rate.

The approach to management, treatment and prevention of scour will vary according to the cause.

The appearance, volume and frequency of the scour are rarely diagnostic, so test faecal samples from scouring calves, to find out what bug(s) is/are a problem on your farm (it can often be more than one!). Work with your vet to come up with the best strategy for tackling the problem.

The Environment

It is important to ensure that the calves' environment is also playing its part in minimising the disease risk.

The fundamentals of good calf housing:

- All in-all out system.
- Plenty of clean, dry, comfortable bedding – something that you'd be happy to lie on!
- Draught-free but well ventilated.
- Avoid over-stocking. Minimal contact between multiple calves.
- Good hygiene to reduce risk of spreading infection between sick and healthy calves. Don't inadvertently transfer disease from sick calves to healthy ones – use separate equipment or disinfect between feedings. Ensure that the disinfectant used is effective against the pathogens you are trying to control, that it is mixed correctly and applied for the correct contact time.

There are several important things that can be done to help minimise the risk of infection from these pathogens and reduce incidence of calf scour:

Colostrum Management

Calves are born without any antibodies – the major line of defence against disease.

Until they are able to produce enough of



their own, they rely on antibodies provided in the colostrum.

A calf's ability to absorb these antibodies into their bloodstream decreases rapidly following birth, disappearing completely by the time they are 24 hours old.

It is crucial that calves receive a sufficient quantity of colostrum, that is of good enough quality (contains enough antibodies and has minimal levels of bacterial contamination), quickly enough after birth. A gold standard approach to colostrum management will have a positive impact against many diseases, this involves:

Quality – Good quality colostrum (>22% on a Brix refractometer).

“The approach to management, treatment and prevention of scour will vary according to the cause.”



“By focusing your attention on preventative herd health, producing healthy and strong calves, the risk of scours is greatly reduced.

Quantity – equal to 10-12% of the calf's birth weight. A minimum of three litres.

Quickly – ASAP after birth, ideally within two hours, definitely within six hours.

(Your vet can test blood from young calves for antibodies to give you a good idea of how effective your colostrum management practices are.)

General Health

Calves are exposed to infectious pathogens from birth and their ability to withstand disease is reduced if they are suffering from concurrent infections such as Bovine Viral Diarrhoea (BVD) or Bovine Respiratory

Disease (BRD). Management events such as mixing, weaning and changes in diet are stressful and can also contribute to the increased susceptibility of calves to disease, as can environmental factors such as extremes of temperatures. Minimising stress whilst maximising the general health and nutritional status of calves in this high risk period will help limit neonatal diseases such as scour and BRD.

Vaccination

Calves rely on antibodies from colostrum to protect them against the diseases that they come across in the first few months of life. Vaccinating the cow/heifer prior to calving with a vaccine against rotavirus, coronavirus and E.coli F5 (K99) helps ensure that her colostrum will contain high levels of these relevant antibodies. Absorbing high levels of these antibodies helps protect calves against these common causes of scour, reducing the severity and duration of diarrhoea,⁴ and limiting the impact of the disease.

Protection of your calves against scours is very much in your hands. The key factors in reducing incidence within the herd can be planned in advance including housing, management and dam vaccination. By focusing your attention on preventative herd health, producing healthy and strong calves, the risk of scours is greatly reduced. ■

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2. Tilling O. (2018) Veterinary guide to rearing dairy heifers – a practical and easy guide. Context products Limited, Ashby de la Zouch, Leicestershire.
3. Scott.P (2009) Calf Management-Calf Scour-Beef and Dairy Rearer Units. NADIS.org.uk
4. Geollot S et al. (2018) Serologic and colostrum response and vaccine efficacy in calves following a single injection of Bovigen® Scour in seronegative pregnant cows. BCVA conference, Hinckley.

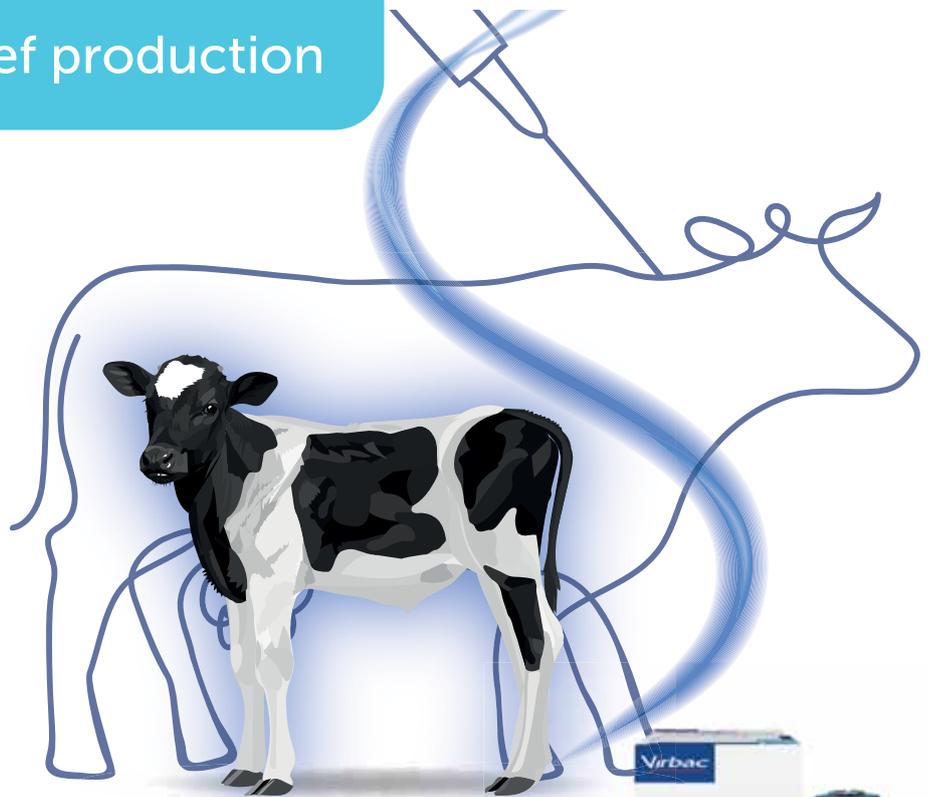


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Fat cattle trade through auction marts surpasses all expectations

“Total cattle sales pushed well over the 1 million-barrier, an increase of 30,000 over 2019.

Liveweight prices continue to drive the finished beef trade, with the live sales ring providing the stability and security the red meat sector has needed throughout the unpredictable months of Covid-19 restrictions and Brexit adjustment.

The sector can reflect on the significant role the live auction system plays in working for the producer to achieve best price. It remains the only route to market that works for the vendor, rather than the buyer.

Annual throughput figures announced by the Livestock Auctioneers' Association (LAA) back in March give a clear indicator of how the live system has been so influential in setting trends and prices.

Well over 11 million animals were sold through the live sales ring in England and Wales in 2020, with turnover topping £1.8bn. The figures represent an increase in almost every sector over 2019 numbers, despite the unprecedented challenges of Covid-19, and a drop in production numbers in some categories.

Total cattle sales pushed well over the one million-barrier, an increase of 30,000 over 2019. Throughout 2021, strong trade continues to be an overriding theme, particularly with the fat cattle trade.



Strength in finished beef trade

McCartneys LLP livestock auctioneer Bradley Towell, operating from Ludlow Livestock Market, explains, “The start of September has seen a continuation of the current strength in finished beef trade. On the week commencing Monday 6th September 2021, finished clean cattle averaged 238p/kg, which is 38p/kg above the same week a year ago.”

Mr Towell says prime bulls can be a slightly more variable trade, however on the 6th of September, bulls averaged 227p/kg, which is 41p/kg above the same week last year.

“These averages include more extreme dairy types which have been a remarkable trade so far this year,” he says. “Prime cattle have regularly been achieving in excess of 290p/kg, with heavier weights returning £1800 and above. Best grade heavy weight bulls achieve in excess of £2,000 each week.”

With finished cattle remaining in short supply generally, Mr Towell believes this is a large influencing factor on the current trade.

It has been a similar picture for Richard Haigh, auctioneer at Selby Livestock Auction Mart.

“Fat cattle trade with us has been good throughout the last twelve months, probably surpassing seller expectations,” he says. “Averages were fairly consistent over the second half of last year and into spring 2021, but we have seen an increase since then for both clean cattle and bulls. The last six weeks have probably seen the biggest lift in trade.”

Mr Haigh continues, “On Wednesday 15th Sept we had a fairly large show of cattle, with 133 heifers averaging 272p/kg, 60 steers 255.5p/kg and 231 bulls 226.8p/kg. The same week last year, heifers were at 238p/kg, steers 222p/kg and bulls 206p/kg.”

“So we are seeing a big difference. It may not be quite as high as this all the time, but 30p wouldn't be exaggerating, especially recently,” he adds.

Selby sells a lot of bulls, and Mr Haigh explains the bull market has been dear with some heavy continentals at 750kg plus



making over £2000 most weeks.

“Best kinds are 265-280p/kg at the minute which again has seen an uplift recently. Black and white bulls are also good with the best of them over 220p/kg. Dairy bred continental bulls can be 230-240p/kg, which compared with recent history, is also a high price,” he adds.

Consumer behaviour

Mr Haigh says, “I think that the peaks highlight how reactive the live markets are to demand and trade. If our meat wholesaler and butcher customers are having a good trade and have orders on their books, they will come out looking for cattle.

“We have several farm shop and butcher customers who have seen a shift in their trade during lockdown with catering trade effectively stopping and retail trade seeing a big lift. The balance is obviously shifting again now as people are getting out and





about,” he adds.

Mr Towell agrees, explaining, “Consumer behaviour has seen a positive increase in buying British beef, evidenced by increased trade in butcher’s shops and reports of slow uptake for foreign beef on supermarket shelves.

“There will always be a demand for affordable meat in this country, however there will undoubtedly be a continued demand for quality beef.”

Working on behalf of the sector

Mr Towell says, “Livestock markets continue to play a vital role in working for the producer to provide a competitive and transparent method of sale. Whilst deadweight method of sale provides a fixed pence per kilo and feedback on grades, there is no substitute for competition and transparency.”

Indeed, the LAA and its members have worked tirelessly on behalf of the sector to ensure the live sales ring delivers the strong market prices that drives this trade. It has lobbied strongly on behalf of the industry on Government consultations covering issues including animal welfare in transport and bTB.

In July, following lengthy negotiations with Defra and the Animal & Plant Health Agency and their vets, the LAA was pleased to announce that producers could benefit from easier access to competitive Approved TB Dedicated Sales platforms for cattle from Approved Finishing Units (AFUs)

This policy change, applicable in England

and Wales, enables vendors to benefit from the ability to use the live auction sales ring to achieve the best price possible for AFU cattle.

GB Dairy Calf Strategy

The LAA has also been working closely with industry to support initiatives such as the GB Dairy Calf Strategy. The dairy industry is committed to rearing all calves with care and eliminate the practice of euthanasia of calves by 2023.

A quarter of a million calves go through the live sales ring every year in England and Wales, making it the largest viable marketplace for dairy bull calves.

“The live sales system is by far the biggest market outlet,” explains LAA executive secretary Chris Dodds, “It provides an outlet for all breeds, sizes and ages, and we have worked with processors to help vendors meet their requirements.”

Animal welfare

Alongside a commitment to the next generation of livestock farmers and auctioneers through its Next Generation Group, the LAA has also focused its activities on further training to support safe operational activities at livestock markets.

The ‘Safe Hands’ Master Drover Programme was launched in 2017 to enhance existing training practices, providing a series of units covering handling, animal welfare, health and safety and market requirements.

Initially designed and delivered on a train the trainer basis, the LAA-owned material has now been converted to a series of online training modules, with the LAA now further developing the course content and delivery options across its member marts.

The Prince’s Countryside Fund

The importance and reach of livestock markets was further recognised with the launch of a new report, commissioned by The Prince’s Countryside Fund, and carried out by Dr Caroline Nye, Professor Matt Lobley and Professor Michael Winter from the University of Exeter, highlighting how auction marts tackle social isolation and improve the health and wellbeing of their users.

Launched at an event with HRH The Prince of Wales in July, *More than a Mart* identifies a number of different ways that

“A quarter of a million calves go through the live sales ring every year in England and Wales, making it the largest viable marketplace for dairy bull calves.”



markets add value to their local communities. The report shows that from running health surgeries to carol services, venues for training to farm shops, marts are far more than just a place to buy and sell livestock.

Competitive Trade

This again underlines the marts’ crucial role as a rural social hub, but the *raison d’être* of the live sales ring is to secure fair prices, and provide a transparent and traceable marketing system.

“Livestock farms are small businesses and have little market power when compared to large scale, corporate food companies. Put simply, they are weak sellers if entering into

private negotiations with powerful buyers and risk a transaction that under-values their animals,” explains Mr Dodds.

“Within the live sales ring, neither buyer nor seller can unfairly influence the price. The auctioneer is an independent individual, working for both the buyer and the seller. They ensure the price is ‘fair’ – it accurately reflects current demand based on available information,” he adds.

“In 2021, despite the dual challenges of Brexit and a global pandemic, we have maintained competitive trade throughout, and this has been reflected in the record numbers and prices achieved,” Mr Dodds concludes. ■



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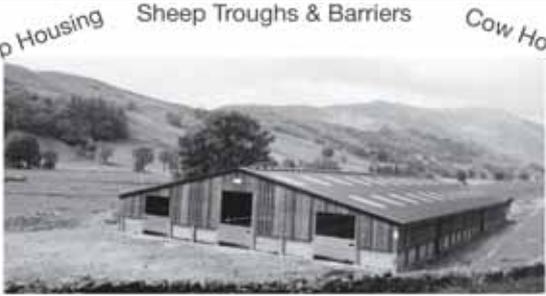
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We at Shepherd Publishing continue our particularly harmonious relationship with K&T Footwear, leading suppliers of high quality shoes and boots, who will next year celebrate their 60th anniversary. This highly respected Northamptonshire company have been trading since 1962 and are suppliers of quality footwear including work boots, show footwear, farm boots, wellington boots,

auction boots, dress boots, town and country boots, shepherds' boots, City footwear, hunting boots, fell boots, mountain boots, hill boots and equestrian footwear. Many readers will know founding Director Ken Storey (pictured right) from many of the agricultural shows, livestock markets, sales and winter fairs and we are pleased to offer a bespoke service to all of our readers. All products avail-

RE Tricker are manufacturers of the highest quality shoes and boots, making handmade footwear in Northampton since 1829 and have been awarded a Royal Warrant by Appointment to his Royal Highness the Prince of Wales. Tricker's Town & Country collection are bench-made by highly skilled craftsmen using only the highest quality materials. All styles are Goodyear welted, leather lined and have a leather in-sole. Goodyear welted footwear can be re-soled and refurbished thereby offering years of comfortable service. Tricker's also manufacture a ladies country collection.

Such superior footwear should be regarded as a wise investment.



Henry Trickers Semi Brogue Dealer / Market Boots

- **Colours:** Burnished calf (pictured), espresso burnished calf (dark brown) and black calf leather uppers, Semi brogue dealer
- Market boot, Fully leather lined & leather insole
- Pull on tabs, Goodyear storm welted commando rubber stitched sole & heel
- Standard Fitting
- **Sizes:** 6-11 including half sizes, and 12 and 13

Price: £495.00 (inc VAT / P&P)



Malton / Trickers 7 Eyelet Brogue Boots

- C shade tan (pictured) gorse calf leather uppers, 7 Eyelet heavy brogue derby lace ankle boot, 1/2 bellows tongue
- Fully leather lined & leather insole, Pull on tabs, Goodyear storm welted commando stitched sole & heel
- Wide Fitting
- Options: Commando sole or leather sole and heel with half inch rubber heel tip
- **Sizes:** 6-11 including half sizes, and 12 and 13

Price: £495.00 (inc VAT / P&P)



Stow Trickers 7 Eyelet Full Brogue Lace Boots

- **Colours:** Acorn antique (pictured), black calf, marron antique and espresso burnished leather upper.
- 7 Eyelet heavy brogue derby ankle lace boot, 1/2 bellows tongue
- Fully leather lined & leather insole, Pull on tabs, Goodyear storm welted double leather stitched sole & heel with 1/2" rubber heel tip. Also available with Dainite sole
- Standard fitting
- **Sizes:** 6-11 including half sizes, and 12 and 13

Price: £495.00 (inc VAT / P&P)



Stephy (ladies) Trickers 7 Eyelet Full Brogue Lace Boots (Leather Sole)

- **Colours:** Acorn antique, marron antique and espresso calf leather upper.
- Same style as above
- **Sizes:** 3-8 including half sizes

Price: £495.00 (inc VAT / P&P)

able from our suppliers are invariably British made and of the highest quality including such well-known names as Loakes, Trickers and Alfred Sargent. All of the Town & Country collection are bench-made in Northamptonshire by highly skilled craftsmen using quality leathers and materials.

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Bobcat UBOK Australian Redback Work Boots

- **Colour:** Stout brown
- The original style elasticated side pull on boot made from waterproof oil kip leather uppers, TPU environmental soles with Shock Protection System.
- **Sizes:** 3-4 full sizes, 4.5 - 12 including half sizes, 13-14 full sizes

Price: £104.95 (inc VAT / P&P)



Bobcat USBOK Australian Redback Safety Work Boots

- **Colour:** Stout brown
- Steel toe capped with waterproof oil kip leather uppers, TPU environmental soles with Shock Protection System, Elasticated side pull on boot.
- **Sizes:** 3-4 full sizes, 4.5 - 12 including half sizes, 13-14 full sizes

Price: £104.95 (inc VAT / P&P)



Welt sewing

The "welt" is a strip of leather that is stitched to the upper and the in-sole and to which the sole will also be stitched. The fact that welted shoes and boots are sewn together, as opposed to glued, means that skilled craftsmen can dismantle and repair them.

Chester Loakes Full Brogue 5 Eyelet Lace Shoes

- **Colours:** Tan burnished calf and Mahogany burnished calf leather uppers, 5 Eyelet full brogue lace shoe, Goodyear storm welted leather sole & heel Fully leather lined
- Rubber sole and heel. (Mahogany in Dainite only)
- Leather insoles
- F Fitting
- Also available with Dainite
- **Sizes:** 6-13 including half sizes

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- Waterproofing - weight saving - insulated chemical resistance
- Abrasion resistance - oil resistance
- Easy to clean, with detachable cushion insoles
- **Sizes:** 5-13 no half sizes

Price: £109.95 (inc VAT / P&P)



Buckshot BSH006BR Safety Boots

- **Colours:** Dark Brown Crazy Horse Leather,
- Anti scuff toe safety boot
- **Sizes:** 6-13 no half sizes

Price: £94.95 (zero rate /inc P&P)



Buckflex B1151SM Safety Boots

- **Colour:** Autumn Oak Leather
- Buckflex Dealer boot with Steel Toecap and Steel Midsole.
- Triple stitched seams and integral leather pull on loop.
- Heat and Oil Resistant sole
- **Sizes:** 6-13 no half sizes

Price: £104.95 (zero rate /inc P&P)



X10R Fully Sprung Shepherd's 10 Eyelet Fell Boots

- **Colour:** Black Wax Kip Leather (pictured)
- Traditional British made outdoor country footwear. Fully sprung.
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Half bellows tongue. Made from reverse tanned waxed kip butt leather uppers which is ultra durable yet very flexible and comfortable when broken in
- Waxed kip leather
- Made to order, please allow 4-5 weeks
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