

The POWER of CANADIAN GENETICS

Summer 2011

The official magazine of the Canadian Swine Exporters Association, the Canadian Livestock Genetics Association and the Canadian Beef Breeds Council



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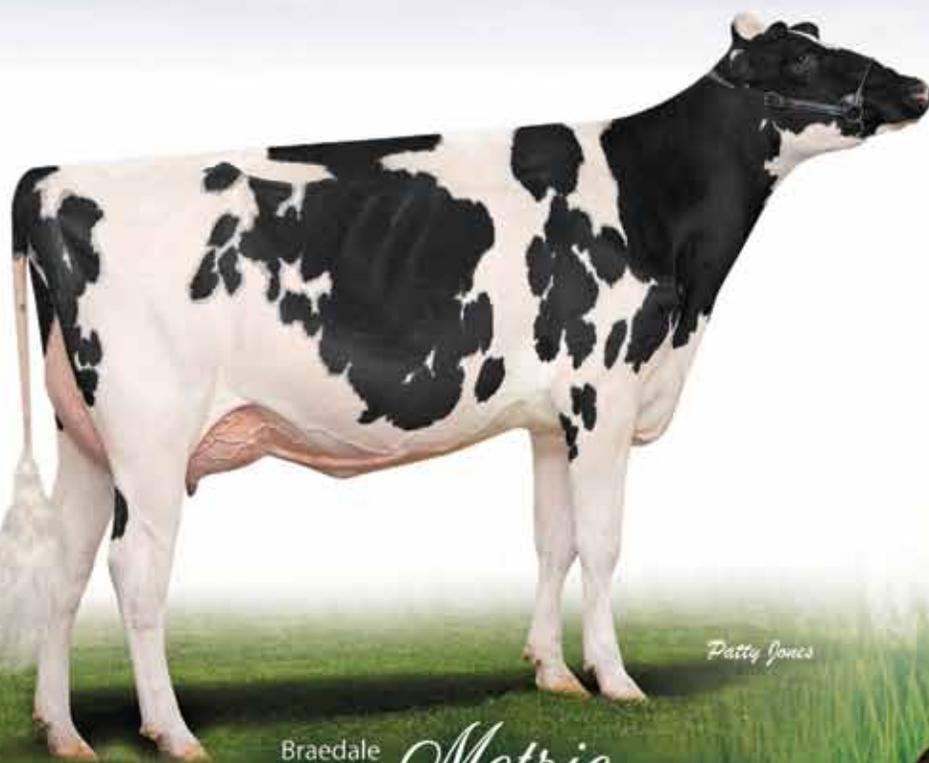


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The POWER of CANADIAN GENETICS

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A Message from the President of the Canadian Swine Exporters Association (CSEA)



Bill Young
President
Canadian Swine Exporters Association

As the newly elected president of Canadian Swine Exporters Association, I welcome the opportunity to bring greetings from CSEA on behalf of the swine industry. It is with great pleasure that I present to you the first resource guide that is dedicated to the Power of Canadian Genetics.

Canadian swine breeders continue to work hard producing the finest swine breeding stock. With emphasis on high health, strength and uniformity, our purebred genetics excel in fast growing and prolific characteristics. The Canadian Pedigree Certificate of Registration ensures the purity and ancestry traced back many generations and offers the foreign buyer the assurance of quality. Years of genetic evaluation and research in the swine industry has made Canada a leader in swine genetics, and a respected supplier of superior, high health genetics that our global customers desire. This investment in genetic evaluation and research has resulted in substantial genetic improvement and has allowed Canada to produce a very efficient animal that performs extremely well in leanness, feed conversion, prolificacy, growth rate and carcass qualities.

The Canadian Swine Exporters Association, a not-for-profit legal corporation, assists the members in market development, promotion and training programs

for clients. Members reach buyers from all regions of the world and are pleased to offer technical expertise for informed marketing and purchasing decisions. Our dedicated and passionate members have exported elite Canadian swine to over 50 countries worldwide and have experience that extends over 40 years. The membership has a great deal of expertise and can satisfy the needs of small and large customers with their swine genetic needs.

Canadian swine breeders continue to work hard producing the finest swine breeding stock. With emphasis on high health, strength and uniformity, our purebred genetics excel in fast growing and prolific characteristics.

I hope you will find this issue of The Power of Canadian Genetics to be informative and an excellent tool for making contacts with the best suppliers from Canada. Do not hesitate to contact us if we may be of assistance to you.

A Message from the President of the Canadian Livestock Genetics Association (CLGA)



Roger Turner
President
Canadian Livestock Genetics Association

When it comes to market access, animal health and market development, the CLGA has been the modern voice of the dairy genetics industry since our founding in 1999—all the while building on the traditions of previous trade associations going back to the 1970s. Along the way, the sheep, goat and poultry genetics sectors have joined us so, when CLGA partners with the swine and beef genetics sectors, together we truly can present the power of Canadian livestock genetics!

Live animal exporters, artificial insemination companies, embryo exporters, herdbooks, industry associations and those who provide support services have joined together at CLGA to develop, produce and market the highest quality of livestock and genetics products. We focus on producer needs and customer expectations by building on the strength of effective partnerships, accessible information and proven genetic performance.

The Canadian Livestock Genetics Association is pleased to partner with the Canadian Swine Exporters Association and the Canadian Beef Breeds Council to present, The Power of Canadian Genetics.

A Message from the President of the Canadian Beef Breeds Council (CBBC)



Allan Marshall
President
Canadian Beef Breeds Council

Welcome to The Power of Canadian Genetics! This is the first national industry resource guide ever produced in Canada for dairy, swine, beef and sheep genetics. Being published on an annual basis, this publication will provide current information as to the state of Canada's genetics industry and advance the commercial success of Canada's herd.

Throughout these pages we invite you to read about the diversity of the Canadian livestock sector—its successes and challenges. We trust that the information contained within this publication will provide you with a reference guide for the Canadian genetic industry to encourage international awareness and transfer of information.

Canada enjoys an enviable reputation as a source of productive and safe beef cattle genetics—a record unmatched in the world. A number of factors contribute to this high level of success. The list includes a clean environment fostered by careful stewardship, healthy livestock supported by a national animal health and safe food policy, mandatory identification, provincial programs, dedicated professionals, careful record keeping, accurate genetic improvement programs delivered by national breed associations, leading edge research conducted by leading universities and corporate entities.

The Canadian Swine Exporters Association (CSEA).
Visit their website at www.canadianswine.com.



The Canadian Livestock Genetics Association (CLGA).
Visit their website at www.clivegen.org.



The Canadian Beef Breeds Council (CBBC).
Visit their website at www.canadianbeefbreeds.com.



Our primary focus is built on four Ps—performance, predictability, profitability and pedigree. Whether you are an importer or producer and breeding for performance traits, carcass traits or maternal traits, one or several of Canada's purebred breeds has the genetics to enhance your herd, and your business success.

A focus on carcass merit has led to innovation and refinement of national and international genetic evaluation programs emphasizing the development of tools to increase accuracy of selection for improvements in carcass yield and meat quality using applications of ultrasound technology and advanced genetic evaluation methods. A maternal index has been developed with the objective to increase genetic merit for sustained production of calves while maintaining input costs. A feedlot index has also been developed that utilizes bull test information to

increase profitability in their progeny by increasing efficiency.

We are seeking to showcase a healthy genetics industry with specialized breeding techniques of purebred breeding stock and with ongoing efforts in genetic advancements. The growth and promotion of the purebred sector in foreign markets is our primary focus and we anticipate distribution to members of the Canadian livestock industry as well as international government agencies, buyers, Canadian Embassies, trade shows and world conferences. Our primary focus is built on four Ps—performance, predictability, profitability and pedigree. Whether you are an importer or producer and breeding for performance traits including birth weight, growth and feed efficiency, or carcass traits such as marbling and cutability, or maternal traits like ease of calving or milking ability—one or several of Canada's purebred breeds has the genetics to enhance your herd, and your business success.

We encourage you to contact Canadian Beef Breeds Council to link you to the source of genetic results that you seek. Our website, www.canadianbeefbreeds.com, includes profiles of each breed and contact information for each breed association and its members. In addition, you can obtain information as to exporters and service providers.

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Healthy Hogs, Healthy Industry, Healthy Food

Initiatives of the Canadian Swine Health Board.

By Bob Harding, Executive Director for the Canadian Swine Health Board and Brian Sullivan, Chief Executive Officer, Canadian Centre for Swine Improvement



is supporting the development and implementation of three program areas: Biosecurity and Best Management Practices, Research, and Long Term Disease Risk Management. These three program areas were identified by an industry-government group formed in early 2008 to explore program options to assist the Canadian hog industry, which was dealing with an outbreak of circovirus at the time. The CSHB initiative was initially funded by the Government of Canada.

The CSHB is governed by a board of directors setting its policy and direction, and representing a broad range of swine industry stakeholders. It consists of representatives from the Canadian Pork Council (CPC), the Canadian Meat Council (CMC), the Canadian Centre for Swine Improvement (CCSI), the Canadian Association of Swine Veterinarians (CASV), and the Veterinary Colleges of Canada (VCC). The board also works closely with Agriculture and Agri-Food Canada (AAFC), the Canadian Food Inspection Agency (CFIA) and the Canadian Chief Veterinary Officers (CCVO's).

Biosecurity and best management practices

The CSHB conducted a national Biosecurity Benchmarking Study, in order to determine the current levels of biosecurity in practice on Canadian swine farms. An in-depth study of this magnitude has never been conducted before in Canada for any sector. The survey findings are being used to plan appropriate and targeted steps to further enhance the health status of the Canadian swine industry.

The CSHB has also developed the National Swine Farm-Level Biosecurity Standard, with the involvement of technical experts from within Canada and also reviewed by international experts. A user guide has also been developed for use with the Standard.



Canada is recognized for its high health status in livestock along with the national programs and government policies that minimize the risk for introduction of new diseases. This is very important not only for the health of the animals but also for a healthy industry and to produce healthy food for a global market. Canada has some natural advantages with its wide open spaces, but maintaining high health requires a constant and ever increasing level of vigilance. This is achieved through leading edge science-based government policies and procedures along with the cooperation and direct involvement of industry. A recent very important development was the creation of the Canadian Swine Health Board as a non-profit industry organization to provide leadership and coordination in support of the management of the health of the Canadian swine herd.

About the Canadian Swine Health Board

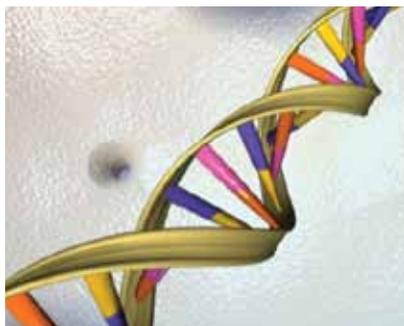


The Canadian Swine Health Board (CSHB) was established in 2009 in collaboration with industry stakeholders, as a national industry organization with a mission to "provide leadership and coordination in support of the management of the health of the Canadian swine herd". The CSHB

To foster adoption of the Standard, a National Biosecurity Training Program has been developed. This training program involves producers and veterinarians, and is currently being rolled out across Canada. The program is designed to improve biosecurity best management measures, adapted to each specific site, as well as to build awareness of disease control. Implementation requires working closely with provincial producer associations.

Research

The CSHB provides funding for research projects related to Porcine Circovirus Associated Diseases/Postweaning Multi-systemic Wasting Syndrome (PCVAD/PMWS) and other emerging, Canadian-based and targeted diseases to improve diagnostic testing, field trials, biosecurity and best management practices, new vaccines as well as genetic resistance. A repository of the current research resources and projects in Canada and in the world with regards to PCVAD/PMWS has also been developed.



Research priorities related to emerging and re-emerging diseases have been determined, with research funding allocated to several programs. Some of this programming is helping to address knowledge gaps relative to PCVAD, as well as emerging and re-emerging diseases.

It was recognized that there was a need for more swine health research capacity in Canada. A series of Post-Doctoral Fellowships were initiated, resulting in eight young researchers working on pig health matters. These researchers and their supervisors will be brought together for a seminar and scientific exchange forum on an annual basis.

Projects were also approved to help conduct research in the application of genomics to swine health improvement, specifically gilt acclimation and sow health phenotyping, as well as developing genetic selection tools for sow health.

Long-term disease risk management



A main objective of the CSHB is to develop, implement, deliver and maintain a framework that would monitor and provide benchmark data on the overall health of the hog herd.

Identification of the requirements for such a framework is underway, including the stakeholder requirements.

The financial impact of PCVAD on the Canadian swine industry has been assessed, and long-term risk management solutions currently in place in the Canadian hog industry are under review.

Research priorities related to emerging and re-emerging diseases have been determined, with research funding allocated to several programs. Some of this programming is helping to address knowledge gaps relative to PCVAD, as well as emerging and re-emerging diseases.

An assessment of the surveillance process currently in place has been initiated including potential enhancements to the system and a plan to monitor zoonotic developments.

In June 2010, a suspect vesicular disease case resulted in the temporary shutdown of a processing facility. While official results were negative for all reportable vesicular diseases, a CSHB report on the investigation identified several recommendations to improve Canada's response in the future. A technical bulletin was also developed to help producers recognize the clinical signs of vesicular diseases.

A secure national swine health program for a secure economic future



Good herd health enhances production competitiveness and provides opportunities for market access which is critical for our industry which exports over 50 per cent of its production. CSHB's initiatives have been developed to support long-term competitiveness of the industry. The successful track record at maintaining high health allows Canada to export genetics and livestock products to countries all around the world. The initiatives of the Canadian Swine Health Board are further strengthening the security of Canada's high health status and will help ensure that Canada remains a top choice global supplier of swine genetics and pork products. 🍁

Please visit www.swinehealth.ca for more information on the Canadian Swine Health Board.

Porcine Reproductive and Respiratory Disease (PRRS) Biofilters

A new weapon for North American hog farmers.

By Murray Elliott, FGC Ltd.



North American hog farmers have a new weapon against Porcine Reproductive and Respiratory Disease (PRRS). It's a mechanical and engineering solution to a viral health issue that has been plaguing our industry for 20 years.

This is the most exciting change to barn design since the concept of three-site production. The biofilter is coming of age and will be an important tool in the long term solution to PRRS.

The concept of the filter system is neither new nor revolutionary in and of itself. It is the new application of filtering incoming air before it reaches the animals in a commercial barn setting that is revolutionary. HEPA filters have been used in hospitals and research facilities to stop virus transmission for decades.

The filter itself is quite simple. It is not unlike a furnace air filter that we are all familiar with. The filter system is a tin box that is placed over an air inlet with several filters mounted in the box.

Because the filter creates resistance to air flow, the filter area must be larger than the air inlet it is covering. This provides more surface area so that the existing air inlet still gets its required air supply. Then the filter simply catches the PRRS virus and traps it in the filter before it can pass into the air space where the animals live.

The PRRS filters are protected by pre-filters that stop dust and debris from clogging the main filters prematurely. These pre-filters need changing approximately

twice a year. The main filters come in two options, either L6 or L9. These numbers denote the particle size that they will stop. The L9 filters have been in use the longest and stop 95 per cent of PRRS size particles. The L6 filters drop to 82 per cent efficiency and have proven successful in research settings, but have a shorter track record in the field.

They reduce the cost of the system but raise the risk of failure to some degree but they are currently being used in the field. The main filters have approximately a three-year life span. The life span is determined simply by how quickly they fill up. The filter is actually more effective six months after its initial installation. As the filter collects virus, other virus coagulates to the existing trapped particles making the filter more effective over time.

In the U.S. and Canada, many sow barns have tunnel ventilation for summer and air inlets for winter. To reduce costs, some of the test facilities opted for the inlets to be protected and the tunnel to be left as it was. The thinking behind this was that PRRS virus is far more likely to travel in the winter than in the summer because the virus has a much shorter life in temperatures above 62F. Of the 47 applications there were 21 boar studs, 21 sow barns, two finishing sites and three research facilities. The following results are for 39 of the farms.

For the five years prior to filtration, the 39 farms had a total of 56 PRRS breaks, or a 36 per cent break rate per year. After filtration the partially filtered farms had four

breaks, or a seven per cent break rate and the fully filtered farms had two breaks, or a four per cent break rate. It must be emphasized that the sample size is small and the duration fairly short so the results are not guaranteed, but certainly are promising in highlighting a new tool against PRRS.

If filtration is used then any air leaks into the barn must be minimized as this air is not filtered and is therefore a potential source of contamination. Windows, fans and doors are the main leak points. When fans are not in use, winter covers must be used. The second stage fans that come on and off are the most serious offenders. Wind socks on the exterior of the fans and back draft dampers on the inside will significantly reduce leakage, but not entirely. This still remains a source of concern. Doors and entry areas need to be switched to a double entry system with positive ventilation to minimize unfiltered air entering the facility. Windows, even in lunch rooms, need to be caulked closed to prevent unfiltered air from entering. Much like biosecurity, when filtration is used the mind set and attitude of what is important is part of the success of the system.

Structurally, the barn must be adapted to make filtration practical. Fans will have to be added as the static pressure of the barn increases with the extra air resistance from the filters. Exterior entrances must be erected to install and service the filters. Stairs and landings up to the gable ends with doors into the attic are required. Gangways need to be put in the attics to install



and service the filter boxes. Making these filters easy to access is necessary to make the system successful in the long run.

The quality of the team installing filtration systems must be of the highest standards. We are talking about working in attics for weeks to cover every air inlet in the facility. Not the greatest environment to run a crew of installers. We are talking about making every controllable CFM of air entering the barn pass through the filter units. We are changing the static pressure of the barn and must correct the fan requirements to this new reality. To make this expensive alteration

to the facility it is imperative that the correct training and attitude of the installers be paramount.

The cost of the system will vary depending on the structure it is installed in, but some ball park numbers for full filtration through air inlets with L9 filters are \$190 - \$220 a sow for initial installation, and \$30 a year maintenance to replace filters. With the L6 filters the costs drops to \$170 - \$200 a sow initial installation and \$25 year maintenance. These are significant costs, but a PRRS break costs between \$100 - \$250 a sow, depending on the type and severity.

Every traditional means of stopping PRRS transmission must be exhausted before considering air filtration. Showers, entry systems, dead stock removal, feed delivery, livestock transport and a dozen more transmission vectors need to be crossed off the list as accomplished before going after air filtration. Then all of these cost estimates need to be assessed on a farm by farm basis. Filtration is not for every situation but if you're in a hog dense area and you've tried to do everything right but still have a history of multiple breaks, it might be the answer you are looking for. It truly is an exciting new technology for our industry. 🍁



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Freedom Stalls

Some producers have to replace worn out dry sow stalls and are seeking alternatives to the traditional stall design.

By Murray Elliott, FGC Ltd.

In the Canadian pork industry over the last three or four years, not much money has been spent on repair and maintenance, for obvious reasons. Now that it looks like we are through the worst of this market, producers are looking at their structures and equipment and have begun to prioritize some much needed reinvestment.

Some producers have to replace worn out dry sow stalls and are seeking alternatives to the traditional stall design.

Some producers are concerned that the traditional two-foot by seven-foot stall is not going to be an option for the long term. Certainly, other jurisdictions around the globe and a handful of states in the U.S. have put deadlines on the end of the dry sow stall. The EU date is January 2013; Australia and New Zealand have both set 2017 as their deadline.

Smithfield is again starting to research reconfiguration options in their massive system to accommodate the change to some type of less restrictive housing system, as they promised five years ago. Even more locally, some Ontario producers are

considering the options as they prepare to replace their aging stalls.

I certainly don't know where this is going, nor do I advocate the end of the traditional stall, but I do understand the need to consider options when reinvesting in sow housing. The reason we don't want to give up stalls is because they work so well for all the requirements of both the sow and the operators. They protect the animals from each other. They allow us to get the right amount of feed to each individual animal. They allow us to safely interact with livestock for breeding, pregnancy checking and vaccinating. They also let us keep individual records and locations. Lastly, they allow for reasonable housing costs that are durable. The downside, however, is the perception that they are too restrictive to the animal's movements.

The Freedom Stall is an option that gives us most of the above benefits and allows the sow the ability to leave the stall and interact with other animals at its discretion. This certainly solves the issues of the perception of restricted movement. The Freedom Stall is basically a two-foot

by seven-foot stall with a back gate that pivots open when the sow pushes against a release mechanism with her butt.

When she backs out of the stall, she enters into a common area that services two rows of stalls, and the back gate remains open. The common area is at least eight-feet wide between the two rows of stalls. This common area is divided by gates into sections that are normally about 10 stalls long to create groups of 20 sows.

This area can be larger or smaller to fit whatever group sizes make sense, depending on herd size and breeding groups. The eight feet of width appears to be one critical measurement with planning layouts to give the exiting sow room to maneuver.

The stalls can be locked down as full groups or individually. This allows for operators to use them as traditional stalls for breeding or whatever activity the operator requires. The individual lock down could be used for a sick or skinny individual sow that requires special care.

The negatives of this stall are that feeding is not individualized by animal. The sow



Freedom stalls allow the sow (mother pig) to have her own space but also allow her to leave for socializing in the straw area. They give the sow the freedom of moving around when pregnant.

still gets the benefit of a separate feeder, but the volume becomes generic. The second negative is cost. The stall itself is about twice the price of a traditional unit.

The footprint of the barn also becomes larger. A traditional stall with alleys included requires 19-square feet per animal. The Freedom Stall requires 25 square feet. That's a 31 per cent increase in dry sow space.

I believe we can get a little creative with penning and use that common area for alley space and reduce that to 22 square feet per animal, but that's still a 15 per cent increase. That adds about \$225 of cost per dry sow space above the traditional design. This cost could be reduced more on a new facility as the pit would not have to be as deep to meet the required 240 days of manure storage because of the increase square footage of the barn.

The positive is that these units do work and the sows do use the common area. Interestingly, in the two facilities I've seen, the sows still spend quite a bit of time locked in their stalls. That is their choice. One facility videoed the sows, as they thought some sows never left the stall. This proved to be incorrect. Virtually every sow left her stall at some point during the day to use the common area. There was fighting during mixing for the first couple of days.

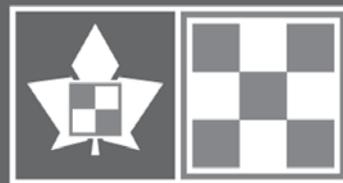
The sows that didn't want to fight had a safe stall. The dominant sows went at it until one of them won. Not a pretty sight, but part of group behaviour with pigs.

Certainly Freedom Stalls are not the only option available. Loose sow pens and electronic sow feeders are both viable alternatives. I personally have been impressed with the Freedom Stall as it gives us most of the benefits we currently have with traditional stalls, with the least amount of management changes.

The biggest downside is the cost compared to current stalls or loose sow housing options. We, as an industry, need to begin this discussion of how we are going to house sows or mitigate the criticism of those who disagree with our current practices. It would be proactive to engage in this discussion before we retool our barns for the next 15 years. 🍁

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The Canadian Beef Breeds Council

Representing the Canadian purebred beef cattle industry. (CBBC)

By Doris Rempel, Canadian Beef Breeds Council



Our members include national breed associations that collectively represent producers of purebred beef breeding stock. Associate CBBC members are exporters and sector service providers, including domestic livestock shows. The Canadian Beef Breeds Council exists to represent and promote Canadian pedigreed beef cattle genetics domestically and internationally. The Canadian Beef Breeds Council is the recognized representative of Canadian seed stock producers by government and industry, while effectively promoting Canada as the source of quality beef cattle genetics.

We help individuals and organizations throughout Canada and around the world to access Canadian purebred beef cattle genetics and related services.

The following attributes have been identified to support the value proposition and the Canadian Beef Advantage: Canadian beef breeds and genetic improvement system; beef profitability and value; animal health and on farm food safety system; food safety system at slaughter and fabrication plants; beef grading system; beef product specification and processing

characteristics; supplier sales and service standards; eating quality, shelf-life and appearance; beef nutrition and health; animal welfare and efficient cattle production system.

On behalf of its membership, CBBC annually develops a Long Term International Strategy (LTIS) that is integrated with those of other industry stakeholders and is consistent with industry-wide objectives and goals. The LTIS enables the council and in particular, its breed and exporter members, to meet their own objectives and goals through a public-private partnership. Activities include global-market intelligence gathering, setting of market access priorities, sponsorship of outbound activities, hosting of inbound study groups, development of collateral promotional items, and training programs.

CBBC participates in meetings in government round tables, policy discussions and trade talks on behalf of its members and the overall purebred sector. CBBC also liaises with the wider Canadian cattle industry and agricultural community on topics and issues of common interest.

CBBC promotes the purebred cattle sector through diverse public relations and

media strategies including attendance at Canadian and international events, dissemination of breed profiles in several languages, presentations and seminars, sponsorships, news releases and conferences, published articles and print advertising.

On behalf of the purebred cattle sector, CBBC collaborates with the Canadian Cattle Identification Agency in the system designed for the containment and eradication of animal disease. All purebred beef



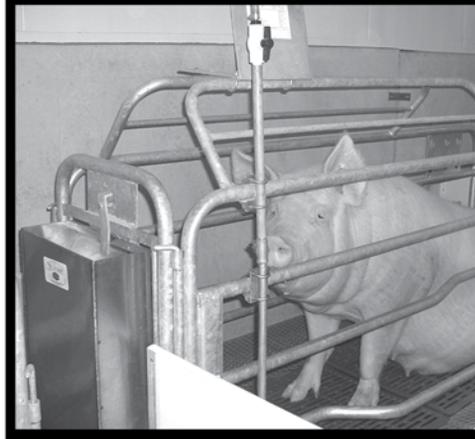
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cattle are tattooed with unique breed and herd identification.

CBBC is frequently consulted by government representatives, policy makers and the wider cattle industry on issues and best practices pertaining to animal health. We also counsel and comment on farm safety and animal transportation issues.

The Canadian Beef Breeds Council is the recognized representative of Canadian seed stock producers by government and industry, while effectively promoting Canada as the source of quality beef cattle genetics.

CBBC monitors all Canadian purebred cattle registrations through data supplied to us by individual breed associations. We are committed to enhancing, streamlining and aligning breed associations' registration criteria to present a more uniform synopsis of purebred cattle in Canada.

Our breed profiles showcase the distinct traits and qualities of the purebred cattle breeds and available in a variety of languages.

CBBC, as a founding partner together with the Canadian Cattlemen Association (CCA), has built a value chain platform established through the CCA Beef InfoX-change System (BIXS). Participants are linked through a network to capitalize on the sharing of information...reducing risk, and leading to increased quality and profitability. 🍁

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Ask CBBC to link you to the source of genetic results you seek. Read breed profiles and reach our national Breed Association members, 10,000 Canadian purebred producers, exporters and service providers, via our website.



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The Canadian Beef Breeds Council (CBBC) represents the Canadian purebred cattle industry. Its members include national breed associations that in turn represent producers of breeding stock. Associate CBBC members are exporters and service providers. The Canadian Beef Breeds Council exists to represent & promote Canadian pedigreed beef cattle genetics domestically and internationally. The Canadian Beef Breeds Council is the recognized representative of Canadian seed stock producers by government and industry, while effectively promoting Canada as the source of quality beef cattle genetics.

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The Power of the Pedigree

By Doris Rempel, Canadian Beef Breeds Council



Increasingly, countries importing Canadian genetics are recognizing the value of the pedigree. Most recently countries within the Commonwealth of Independent States have sought out assistance of Canadian breed associations to develop breed registries within these countries. The need for organizations to facilitate international collaboration in beef cattle recording and genetic evaluation is becoming increasingly evident.



The Animal Pedigree Act in Canada defines registration of purebred cattle and transfer requirements upon sale as legislated by law. Purposes of the Animal Pedigree Act are:

- a. To promote breed improvement; and
- b. To protect persons who raise and purchase animals.

By providing for the establishment of animal pedigree associations that are authorized to register and identify animals that, in the opinion of the Minister, have significant value.

The principal purpose of breed associations shall be the registration and identification of animals and the keeping of animal pedigrees.

The scope of associations is defined as follows:

1. An association may be incorporated under this Act in respect of a distinct breed, an evolving breed or one or more distinct breeds and one or more evolving breeds. Limit of one association per breed or evolving breed.
2. Only one association may be incorporated in respect of each distinct breed and each evolving breed.
3. Where an association is incorporated in respect of one or more distinct breeds and one or more evolving breeds, the distinct breeds and evolving breeds must all be of the same species.

The Act includes the following requirement: no person shall, without an express statement that the animal's registration, identification or status as a purebred is from a jurisdiction other than Canada and that the animal will not be registered or identified, or as eligible to be registered or identified in Canada by the person, sell as registered or identified, or as eligible to be registered or identified, or as a purebred, any animal without providing to the buyer thereof within six months after the sale the animal's duly transferred certificate of registration or certificate of identification. 🍁

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Genetic Improvement

The use of DNA and other tools to improve genetic makeup and increase profit.

By Doris Rempel, Canadian Beef Breeds Council

Currently, heightened market forces are advancing pressure on the livestock industry in Canada. Canada continues to improve several key performance attributes to maintain and enhance its position as a major contributor. Genomics technologies have already helped the Canadian dairy industry make tremendous advances in breeding, yield and health. Other livestock industry sectors are reaping similar benefits as a result of ongoing efforts.

Advanced genomic tools are developed to assist livestock producers in:

- Determining economically relevant traits;
- Making selection decisions earlier by identifying preferred genetics at a younger age;
- Improving difficult to measure traits such as fertility and reproductive efficiency;
- Enhancing return on investment by use of more efficient breeding management procedures and techniques;
- Improving health and reducing use of antibiotics resulting in lower cost of production;
- Increasing feed efficiency;
- Producing new high quality food and value-added products; and
- Enhancing traceability.

Genetic evaluations are conducted by each breed association based on the data submitted by individual producers of pure-bred seedstock. The evaluations include the compilation and utilization of performance and pedigree records to improve efficiency, profitability and sustainability of beef production. The use of Expected Progeny Differences (EPDs) is the comparison

of the genetic merit of various traits within the same breed. An EPD predicts the difference in performance of future offspring of a parent, as compared to progeny from other parents, when each are bred to mates of equal value. EPDs are calculated for birth, growth, maternal and carcass traits and are reported in the same units of measurement as the trait.

Genetic research is concentrated on enabling partners to focus on the development, implementation and adoption of genomics-based solutions to increase the profitability and sustainability of the livestock industry. The single-nucleotide polymorphism (SNP) is a DNA sequence variation occurring when a single nucleotide in the genome differs between members of a biological species or paired chromosomes within an individual. EPDs measure an additive effect of all genes, divisible by

two, and genes are unknown. The use of molecular breeding values (MBVs) is based on the sum of additive effects of the whole genomic analysis tool, (SNP) multiplied by copy number. They are associated with genetic variance and can theoretically be collected at birth. Incorporating molecular data into EPDs mitigates the risk of using younger animals, resulting in faster genetic progress.

Recent achievements within the research community in North America include in excess of 200 genetic markers developed and commercialized for parentage, carcass and meat quality traits, feed efficiency, and dairy traits. Whole genome mapping technologies have been developed with assays over 77,000 point mutations in cattle in a single reaction. Similar assays are now available for many species, including pig, chicken and sheep. 🍁



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Bull Proof Accuracy and Stability

With the globalization of genetics, the accuracy and stability of domestic genetic evaluations within any country is of great importance.

By Brian Van Doormaal, Canadian Dairy Network

Given that Canada exports twice as much semen internationally compared to what is needed to meet the needs of Canadian dairy producers, proof accuracy and stability is even more critical. Of course, the primary goal at Canadian Dairy Network (CDN) is to provide timely genetic evaluations to assist Canadian dairy producers and industry partners in making accurate genetic selection and mating decisions in order to maximize profitability at the farm level.

Defining proof accuracy versus stability

With traditional young sire testing programs, bulls are normally five years of age before achieving progeny proven status and receiving an official LPI. On average, bulls proven in Canada have a Reliability of at least 85 per cent for both production and type when they attain their first official LPI. When CDN refers to proof accuracy, the goal is to provide genetic evaluation services such that each bull's first official proof closely resembles what it becomes years later when the performance of several thousand daughters is included. Proof stability, however, makes reference to any changes that may occur from one genetic evaluation release to another over time. The ideal scenario is to have each bull's first official proof as close to what it will be years later (i.e. high accuracy) and that very little change occurs over time between these start and end points (i.e. very stable).

Factors affecting proof stability

Once a bull receives its first official progeny proof and associated LPI, there are numerous factors that can affect how stable it remains from run to run. The most obvious source of proof change is the addition of more daughters as well as more performance data on daughters already included. Since genetic evaluations

for production traits are based on test day records, the addition of more performance data means that test day records later in first lactation are added to those already recorded with fewer days in milk. In addition, once daughters progress to second and third lactation more test day records contribute to the sire's published proof and LPI. Other traits, such as somatic cell score, daughter fertility and herd life also have daughter data being continually added as a bull ages, which may result in some change to their official proof over time.

Since August 2009, genomics has also become a potential source of change in published genetic evaluations for males and females. While a change may be expected for newly genotyped animals, since genomics is an independent source of information for predicting an animal's genetic merit, other animals may also be affected. For example, the published evaluation for an animal may change when either or both of its parents are newly genotyped even if the animal itself is not genotyped. Also, with the release of new official genetic evaluations in April, August and December of each year there is a group of over 500 newly proven sires genotyped in North America that are then also included in the process for estimating genomic evaluations in Canada. The addition of these new sires

creates changes in direct genomic values for various animals in the population.

A third factor affecting proof stability includes changes in the genetic evaluation methods and models. For example, in 2009 the genetic evaluation system for production traits was modified to account for the number of days pregnant each cow was on each test day compared to open cows as well as the inclusion of an adjustment for extreme test day yields relative to normal expectations. More recently, proofs released in January 2010 experienced increased change following the implementation of updated estimates of heritabilities and genetic correlations across each of the first three lactations. These new genetic parameters had little impact for the majority of bulls but did result in more variability from the August 2009 proofs for bulls adding daughters in second and/or third lactation.

Analysis of proof stability

Geneticists at CDN recently conducted an analysis to quantify the degree of change in proofs calculated for the August 2010 release compared to April 2010 evaluations. The graph (see Figure One) shows the results for LPI for all bulls first proven since February 2000, grouped by the genetic evaluation release when they received

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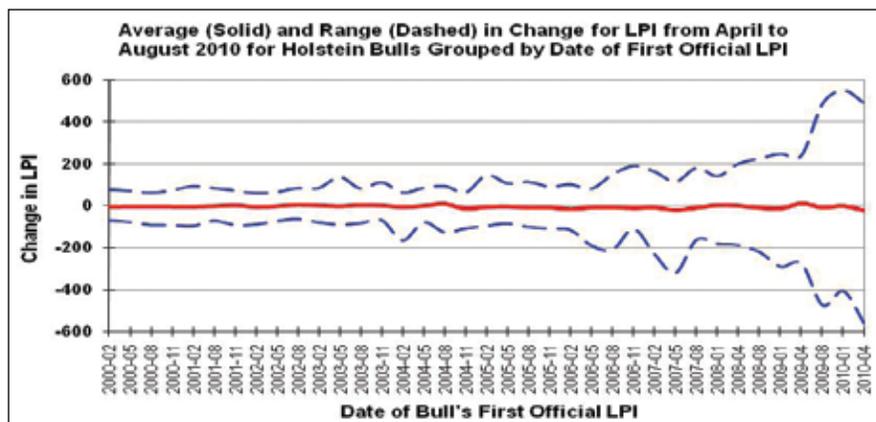


Figure 1.

Focus on Dairy

- Canadian milk and dairy products are world-renowned for their excellence. Enforcement of strict quality standards on dairy farms and in processing plants adds to this international reputation.
- In 2010, dairy production in Canada generated total net farm receipts of \$5.5 billion and generated sales of \$13.7 billion, representing 15 per cent of the Canadian food and beverage sector. The dairy industry ranks third in the Canadian agricultural sector following grains, and red meats.
- About 81 per cent of Canadian dairy farms are located in Ontario and Quebec, 13 per cent in the Western provinces and 6 per cent in the Atlantic Provinces. There are 455 milk processing plants (including 274 federally-inspected) contributing to more than 22,650 jobs across Canada.
- The Canadian dairy cattle population totals 1.4 million. Based on milk recording records, the typical Canadian dairy farm has 72 cows.
- The Canadian dairy sector operates under a supply management system based on planned domestic production, administered pricing and dairy product import controls.
- The Canadian dairy industry is famous for the superior genetic quality of its herd as well as its strong dairy cattle improvement and genetic evaluation programs.
- The Holstein breed is the most common dairy breed (93 per cent of the dairy herd); Ayrshire, Brown Swiss, Canadienne, Guernsey, Jersey and Milking Shorthorn breeds are also found on Canadian farms.
- In 2010, Canadian cows enrolled in official milk recording programs produced on average 9,768 kg of milk per lactation (305 days) with an average content of 3.79 per cent fat and 3.21 per cent protein.
- Canada is at the forefront of new and innovative research into dairy genetics. Through genotyping, geneticists determine animals DNA profiles and are currently estimating genomic evaluations for over 60 different traits. Genomic evaluations published by the Canadian Dairy Network (CDN) are calculated using imputed genotypes (3K and 50K) since October 2010.
- Canada is a net exporter of dairy animal genetics (bovine embryos, semen and live dairy cattle). Exports totalled about \$101 million in 2010 among a total of 98 countries. Canada's dairy bull semen exports represent about 20 per cent of world exports.
- For exports of Canadian live breeding cattle in 2010, the United States was the top market accounting for 58 per cent of total dairy cattle exports.

Source: AAFC

For additional information, please refer to: "Statistics of Canada's Animal Genetics" at http://www.dairyinfo.gc.ca/pdf/genetics_publication_2010e.pdf.



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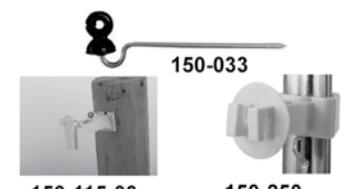
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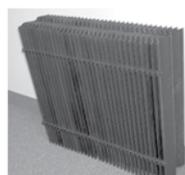
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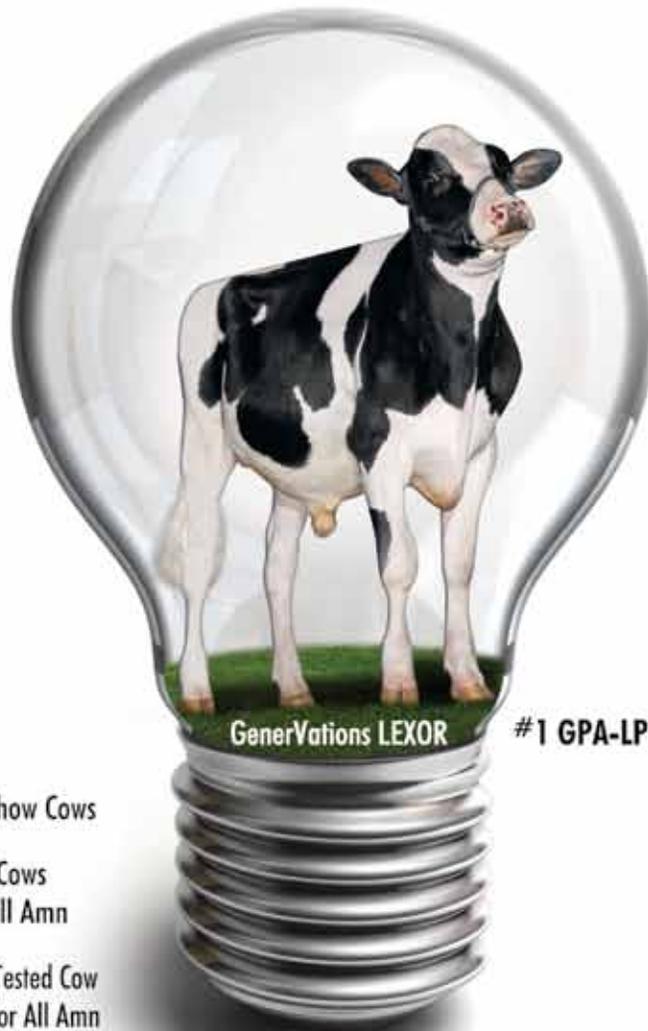
Continued on from page 28

their first official LPI. The solid line represents the average LPI change from April to August, which is very close to zero for all groups of bulls. This line demonstrates that no systematic bias exists and bulls have an equal chance of increasing or decreasing from run to run. The two dashed lines reflect the most extreme LPI change within each group that generally includes more than 100 proven sires. As expected, individual bulls newly proven in the past year may experience a wider range of change (i.e.: up to 500 LPI points in either direction), due to the numerous factors possibly affecting their proof. In addition, there is a second group of individual bulls first proven three to four years ago that may also experience increased proof variability as they add their second crop of daughters.

Summary

Genetic evaluations are used daily to make sire selection and mating decisions at the farm level and by AI companies for future young sire purchases. Pregnancies and resulting calves represent an important investment in the advancement of the herd and breed improvement in general. Also, given the lengthy time period that each cow is expected to remain productive in the herd, breeding decisions today have a long term impact on herd profitability. For these reasons, CDN aims to provide the highest possible level of proof accuracy and stability given the various factors that may contribute to their variability. A recent look at proof stability over time has shown no systematic bias in terms of average LPI change and a maximum range in change as expected given the average LPI Reliability near 85 per cent for newly proven sires. Analysis in this area will continue at CDN as it relates to the accuracy of first official proofs versus those three to four years later. 🍁

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Canadian Sheep Options and Opportunities

Sheep have been a part of agriculture in Canada since the first settlement.

By The Canadian Sheep Breeders' Association

As the early pioneers pushed westward, sheep followed almost immediately as they offered the early settlers a steady supply of wool and meat. Sheep thrived on rough pastures that were unable to support cattle and were an important part of the country's early livestock industry.

Commercial lamb production has resulted in the selection of breeds with maternal traits such as prolificacy and mothering ability to cross with terminal sires, which excel in the production of lamb meat. The introduction of hair sheep has been the result of increased emphasis on meat production and a negative net return on wool sales. More recently, sheep dairying has become part of the Canadian industry. Consumer demand for high quality, specialty cheeses has stimulated recent growth in this area of sheep production. Canada still maintains a number of breeds raised primarily for supplying fleeces to hand spinners and specialty wool producers. This dedication to constantly improve and adapt production to a changing international marketplace has resulted in the development of a variety of breeds and individuals to produce a range of products.

The registration system is supervised by the Canadian Sheep Breeders' Association and administered by the Canadian Livestock Records Corporation. Four generation pedigrees provide accurate ancestry for each animal and random DNA blood testing of every 500th animal registered helps insure the integrity of the registration system. There are many breeds but by numbers of animals registered, the most popular are: Dorset, Suffolk, Arcott (Rideau), Romanov and Katahdin.

Genetic evaluation and improvement programs are available to Canadian producers. These programs are important management tools, which offer performance data to both the breeder and the purchaser of Canadian genetics.

A variety of federal and provincial health and safety programs provide a mechanism for monitoring, control and verification of both individual animals and the national flock.

As a result of the systems and programs available to Canadian breeders, buyers of Canadian genetics can make their selections with confidence. 🍁



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Goat Sector Grows with Increasing Consumer Demand



By Jennifer Haley, MBA, CAE, P. Ag., Executive Director for the Ontario Veal, Ontario Goat, Ontario Rabbit

The Canadian goat industry, while relatively young, is growing by leaps and bounds. With a thriving dairy goat sector and a flourishing meat goat sector, the industry has been able to respond to the growing consumer demand.

While traditional livestock systems have had their challenges in recent years, Ontario goat producers have been able to bring the goat industry into the mainstream as a viable farming option through hard work and perseverance. Unlike other livestock production, goats are less capital intensive and provide the farm family the opportunity to match growth with demands in the market place.

Ontario represents almost 50 per cent of Canada's goat population and almost one-third of Canada's goat farms. While there is a thriving smaller scale or hobby sector within the goat industry, Ontario goat producers are commercially focused on the viability, profitability and sustainability of their operations.

The dairy sector is a driving force in the growth of the Ontario goat industry. With just over 30 million litres of goat milk produced in 2010, Ontario's dairy goat farmers and processors are projecting steady and increased growth year over year for the foreseeable future. Almost 85 per cent of the milk produced is currently processed into goat cheeses of various varieties with the remaining processed for the fluid milk market and other goat dairy products.

The average goat dairy herd would be approximately 200 milking does. Ontario's dairy goat producers are shifting from seasonal breeding to a more year-round breeding schedule to ensure that milk supply will be available for processors on a consistent basis. Popular dairy breeds include Saanen, Alpine, LaManchas, Nubians and Toggenburgs and top quality genetics with desirable production traits have been the focus for breeders.

Ontario Goat, a producer organization dedicated to serving the needs of the goat sector, has implemented a number of programs to help fulfill this mandate. GoGen is a goat genetic improvement program designed to look at milk recording, classification, registration, breeding strategies and herd health status as important benchmarks that will help producers make sound management decisions on their farms.

Another important project has been the development of generic consumer marketing programs for the dairy goat sector. Currently, Ontario Goat has launched a goat cheese awareness campaign in order to expand the category, drive sales and provide an opportunity for goat producers to grow their volumes of milk



A meat goat. Photos by Kendra Keels, Ontario Veal, Ontario Goat, Ontario Rabbit.

produced. Future campaigns will look at fluid milk consumption and other dairy goat products.

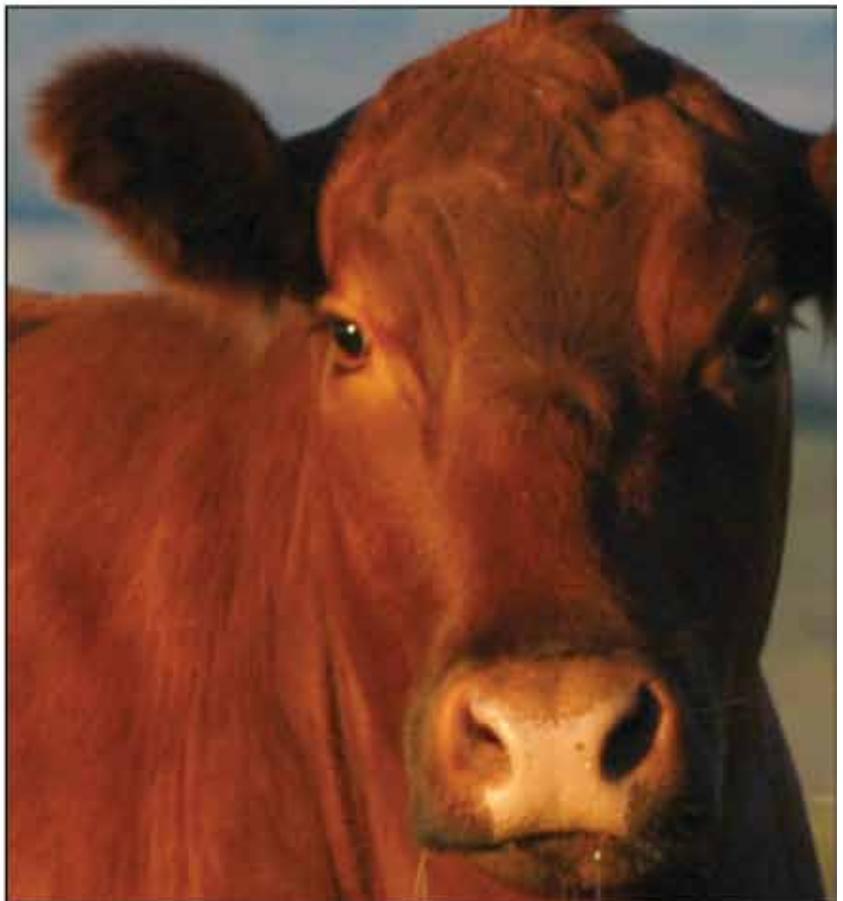
Raising meat goats is gaining more popularity with the number of operations growing. There are two predominant types of goats raised for meat—Boer and dairy buck kids. The Boer breed was only introduced into Canada in the very early 1990s. Boer goats have a high yielding carcass and excellent conformation, while dairy buck kids are raised to lower weights than Boers. Goat meat is also known as chevon. Currently, meat goat consumption is largely driven by various ethnic communities and their celebrations.

Fibre goats, while a small niche sector, is perhaps another area for growth for Canadian goat breeders, given the right opportunity. Angora breeders supply small quantities of mohair for processing in local mills. Currently, there is not a large demand for this natural fibre from the mills. Chewing lice is a problem that affects the quality of the fibre, however, like other goat breeders, fibre producers have limited access to approved pharmaceuticals that are labelled for use in the goat sector.

Make plans to come to Canada to take part in the International Goat Symposium, November 2-6, 2011, which is being held in conjunction with the 2011 Royal Agricultural Winter Fair from November 4-13, 2011. Perhaps the premier goat event of the year, the International Goat Symposium has a program for everyone. Expert speakers, farm tours, an industry trade show, the Royal Goat Shows and so much more. Full program and registration details can be found at www.goatsymposium.com. We look forward to seeing you in November! 🍁

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Canadian Swine Exporters Association: Resource Guide

CSEA's Vision and Member Benefits

The Canadian Swine Exporters Association's (CSEA) mission is to assist the Canadian swine industry and promote and market Canadian swine genetics worldwide. CSEA represents the top exporters from across Canada. Working very closely with Canadian Swine Breeders Association (CSBA) and Canadian Centre for Swine Improvement (CCSI), our members produce and sell the best genetics with guaranteed purity, high health, and a reliable network of technical support for the client.

The main objective for every purebred swine producer is to breed profitable animals. The purebred industry has enjoyed successes for many years with exports to over 50 countries. Canadian swine genetics have made, and continue to make, a difference in the profitable breeding business globally and at home. Our success is credited to the dedication of the family farm, the larger multi-site producer alliances, Canadian technology, our high health status, our environmental stewardship, the low density of swine production, superior fast growing genetics with high sow productivity and good carcass quality.

As stated by the late Warren Stein, "Canada has become one of the largest exporters of pork, and it stands to reason that the success is based on the quality of our genetics. To get first-class meat, you must begin with first-rate genetics."

Canadian Swine Exporters Association is a national, not-for-profit, trade association assisting with market access and animal health interests of those involved in the sale, service and promotion of swine genetics both domestically and internationally. CSEA members supply the finest Canadian swine breeding stock, fresh and frozen semen, as well as technology, training and consultation.

Canadian Swine Exporters Association is a high profile respected entity that can keep its finger on the pulse of market access and health issues and speak on behalf of the industry on a daily basis. Together, the members exhibit at international trade show events and coordinate marketing activities and training programs for international clients. From a marketing perspective, the association represents the best genetic suppliers in Canada and are able to promote the quality and value of Canadian purebred genetics internationally.

Canada has become one of the largest exporters of pork, and it stands to reason that the success is based on the quality of our genetics. To get first-class meat, you must begin with first-rate genetics.

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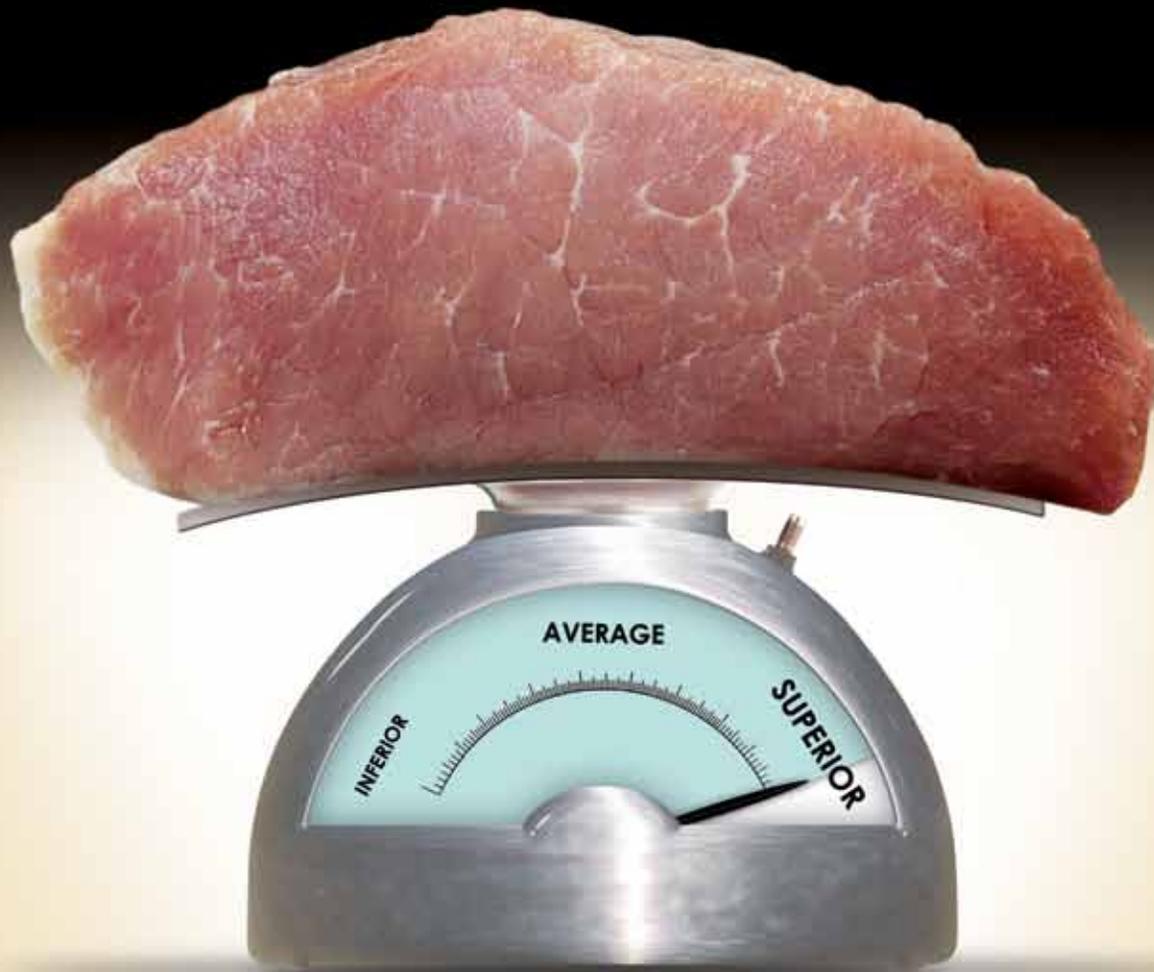
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The Canadian Livestock Genetics Association: Resource Guide

CLGA's Vision and Member Benefits

CLGA Vision

To maximize global market access for Canadian livestock genetics.

CLGA Mission

CLGA acts on behalf of its members on issues related to market access, market development and animal health through government liaison, fostering industry partnerships and international governmental and non-governmental affiliations.

For over half a century, Canada has been a source of high quality, disease-free livestock genetics. CLGA is a not-for-profit trade association (NGO) with a membership composed of livestock exporters, artificial insemination companies, embryo transfer companies, poultry genetics exporters, herdbooks and other companies, agencies and associations that provide support to the genetics industry. Membership includes the dairy, sheep, goat and poultry genetics sectors.

CLGA members work together to continuously improve the livestock genetics industry and focus on providing high quality live animals, semen, embryos, hatching eggs, day-old birds and related products, services and technologies to customers in almost one hundred countries. We recognize the importance of fostering the development of strong technical skills to enhance the management and decision-making capabilities of the client and this provides the client with assurance that imported Canadian genetics will perform to the promised potential. Genetics are important; the effective management of those genetics is critical in terms of profitability. Thus, Canadian exporters can provide the international client with a complete package of value added genetics combined with profit building advice and training provided by recognized industry experts. The credibility and integrity of the programs and systems become the Canada Brand for the genetics export sector.

CLGA builds consensus among and then speaks on behalf of its members on all matters related to animal health (domestic and international) and market access. To enhance the strength of our message in support of member needs, CLGA also participates in broader agri-food industry initiatives and actively develops strategic partnerships.

In addition, CLGA is responsible for maintaining current long-term international marketing strategies for dairy and small ruminant genetics and for securing and administering funds that support market development activities.

In carrying out our mandate, we work very closely with the Canadian Food Inspection Agency, Agriculture and Agri-Food Canada and the Department of Foreign Affairs and International Trade.

With commitment, leadership, passion and vision, Canadian livestock owners will always be improving. The CLGA is ready to work with you.

CLGA members work together to continuously improve the livestock genetics industry and focus on providing high quality live animals, products, services and technologies to customers in almost one hundred countries.

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The Canadian Beef Breeds Council: Resource Guide

CBBC's Vision and Member Benefits

The Canadian Beef Breeds Council is the recognized representative of Canadian seed stock producers by government and industry, while effectively promoting Canada as the source of quality beef cattle genetics.

The Canadian Beef Breeds Council's mission statement is "to represent and promote Canadian pedigreed beef cattle genetics domestically and internationally."

The Canadian Beef Breeds Council annually develops a marketing plan together with the focused engagement and participation of its various members, including 20 breed associations, as well as sector service providers, livestock shows and exporters.

CBBC is engaged with its membership organizations in representing Canadian seed stock producers to promote international marketing activities that best achieve developed goals and objectives. The coordinated activities are planned based on the identified needs in various markets and whether these prospects will result in potential sales of cattle and genetics. Activities are itemized and categorized in terms of achieving market penetration, promotion, and training and after sales support and technical transfer.

Comments from members:

"The CBBC is an essential partner in the success of our producer-members. CBBC helps us develop and execute our international marketing strategy. It plays a key role in the industry and stakeholder negotiations here and internationally that promotes and drives our sales of breeding cattle and genetics."

"Our Association benefits by CBBC membership through the availability of funding to support our in- and out-bound missions—which have generated substantial sales of genetics to international buyers."

"We appreciate CBBC's liaison with the Canadian Cattlemen's Association (CCA) and the Canadian Food Inspection Agency (CFIA) to keep us informed of changing health regulations in regard to export markets. Thanks to CBBC's involvement with government officials, the profile and best interests of the purebred beef cattle sector are always promoted."

"The Canadian Beef Breeds Council (CBBC) has assisted our business with access to essential funding sources to support the promotion and sale of our services internationally. Our specialization is purebred beef cattle embryo sales, implantation and technical training for clients."

"CBBC helps us to develop and utilize relationships in Canada and internationally with government and industry representatives, and customers, that are essential to us in reaching our business goals."

We welcome your inquiries regarding Canadian purebred cattle genetics and related technologies. We offer presentations, support inbound and outbound trade missions, assist in hosting international beef cattle industry guests and can link you to diverse industry, business and government experts.

CBBC is engaged with its membership organizations in representing Canadian seed stock producers to promote international marketing activities that best achieve developed goals and objectives.



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www.canadianblondeassociation.ca

Canadian Charolais Association

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E-mail: gelbvieh@gelbvieh.ca
Web: www.gelbvieh.ca

Canadian Hays Converter Association

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Fax: (403) 244-3128
E-mail: haysconverter@shaw.ca
Web: www.clrc.ca/haysconverter.shtml

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Phone: (403) 275-2662
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E-mail: xtcherf@shockware.com
Web: www.hereford.ca

Canadian Highland Cattle Society

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E-mail: highland@chcs.ca
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E-mail: aburgess@limousin.com
Web: www.limousin.com

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Web: www.clrc.ca/luing.shtml

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Web: www.pinzgauer.ca

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Web: www.royalfair.org

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Web: www.semex.com

Xports International Inc.

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E-mail: rod.g@xportsinternational.ca
Web: www.xportsinternational.ca

For more information about the Canadian Swine Exporters Association, contact Rosemary Smart at (519) 421-0997 or visit their website at www.canadianswine.com.

For more information about the Canadian Livestock Genetics Association, contact Rick McDonald at (519) 821-5200 or visit their website at www.clivegen.org.

For more information about the Canadian Beef Breeds Council, contact Brett Campbell at (403) 730-0350 or visit their website at www.canadianbeefbreeds.com.



Upcoming Industry Events

CANADIAN SWINE EXPORTERS ASSOCIATION EVENTS

November 9-11, 2011
Hanoi, Vietnam
Vietstock

March 22-24, 2012
HCMC, Vietnam
Ildex

March 28-29, 2012
Red Deer, Alberta
Alberta Pork Congress

April 2012
Quebec, Quebec
Expo Congres du Porc du Quebec

June 6-8, 2012
Des Moines, Iowa
World Pork Expo

June 26-27, 2012
Ontario Pork Congress

November 13-16, 2012
Eurotier
Hannover, Germany

CANADIAN BEEF BREEDS COUNCIL EVENTS

Canada
September 30-October 2, 2011
Olds, Alberta
Olds Fall Classic

November 3-6, 2011
Brandon, Manitoba
Manitoba Livestock Show

November 4-13, 2011
Edmonton, Alberta
FarmFair

November 4-13, 2011
Toronto, Ontario
Royal Agricultural Winter Fair

November 21-26, 2011
Regina, Saskatchewan
Canadian Western Agribition

January 20-21, 2012
Camrose, Alberta
Canadian Bull Congress

March 2012
Calgary, Alberta
Calgary Bull Sale

March 2012
Ottawa, Ontario
Canadian Cattlemen's Association

March 26-31, 2012
Brandon, Manitoba
Royal Manitoba Winter Fair

July 2012
Calgary, Alberta
Summery Synergy

July 6-15, 2012
Calgary, Alberta
Calgary Stampede

June 20-22, 2012
Regina, Saskatchewan
Farm Progress Show

September 2012
Olds, Alberta
Olds Fall Classic

November 2012
Brandon, Manitoba
Manitoba Livestock Show

November 2012
Edmonton, Alberta
FarmFair

November 2012
Toronto, Ontario
Royal Agricultural WF

November 2012
Regina, Saskatchewan
Canadian Western Agribition

International
September 7-18, 2011
Montivideo, Uruguay
Expo Prado
October 4-6, 2011
Kuala Lumpur
Livestock Asia Expo and Forum

October 7-10, 2011
Moscow, Russia
Golden Autumn-AgroTech

October 10-13, 2011
Poznan, Poland
Farma

October 19-22, 2011
Billings, Montana
NILE

November 5-18, 2011
Louisville, Kentucky
NA International Livestock Expo

November 9-11, 2011
Hanoi, Vietnam
Vietstock Expo & Forum

November 23-25, 2011
Uzbekistan, Tashkent
Uzagroexpo

January 7-22, 2012
Denver, Colorado
National Western Stock Show

January 31-February 3, 2012
Kiev, Ukraine
Inter Agro

February 2012
Kiev, Ukraine
Kiev AgriHort

February 1-4, 2012
San Antonio
NCBA (1) January

February 13-17, 2012
Moscow, Russia
ProdExpo

February 28-March 18, 2012
Houston, Texas
Houston Livestock Show

March 2012
Chihuahua, Mexico
Expogan Chihuahua

March 14-16, 2012
Astana, Kazakhstan
Exhibition AgriTek Astana

April 2012
Houston, Texas
Beef Improvement Federation

April 2012
Londrina, Brazil
Expo Londrina

April 7-9, 2012
Moscow, Russia
AgroFarm

April 5-18, 2012
Sydney, Australia
Sydney Royal Easter Show

April 30-May 4, 2012
Ribeirao, Brazil
Agrishow

May 7-12, 2012
Rockhampton, Australia
Rockhampton

May 16-18, 2012
Almaty, Kazakhstan
AgriTekAlmaty 2012

June 2012
Kiev, Ukraine
Agro Expo

June 2012
Sao Paulo, Brazil
Feicorte

June 13-16, 2012
Auckland, New Zealand
Fieldays

June 21-24, 2012
Edinburgh, Scotland
Royal Highland

July 2012
Bogota, Colombia
AgroExpo

July 2012
Palermo, Argentina
La Rural

July 25-28, 2012
Orlando, US
NCBA Summer Conference

August 2012
Porto Alegre, Brazil
Expointer Show

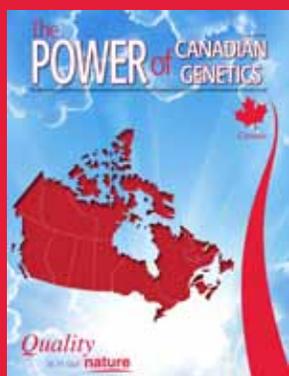
CANADIAN LIVESTOCK GENETICS ASSOCIATION EVENTS

November 4-13, 2011
Exhibition Place, Toronto
The Royal Agricultural Winter Fair
www.royalfair.org

November 1-5, 2011
Toronto and area (including the goat shows at the Royal Winter Fair)
International Goat Symposium

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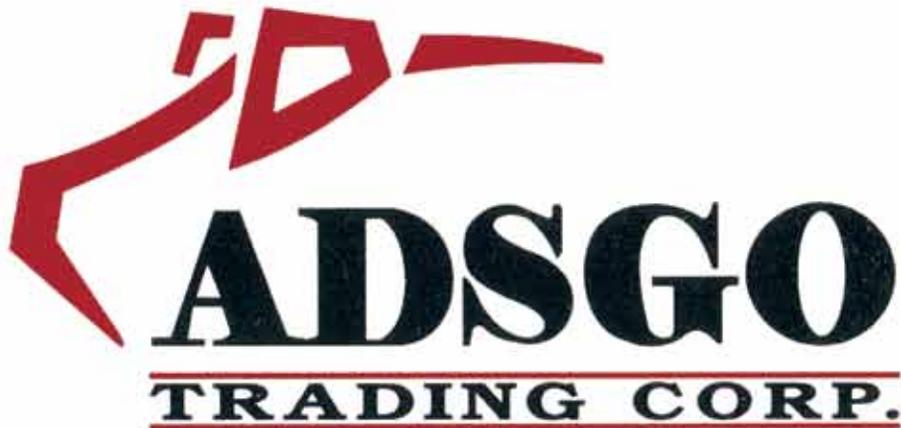


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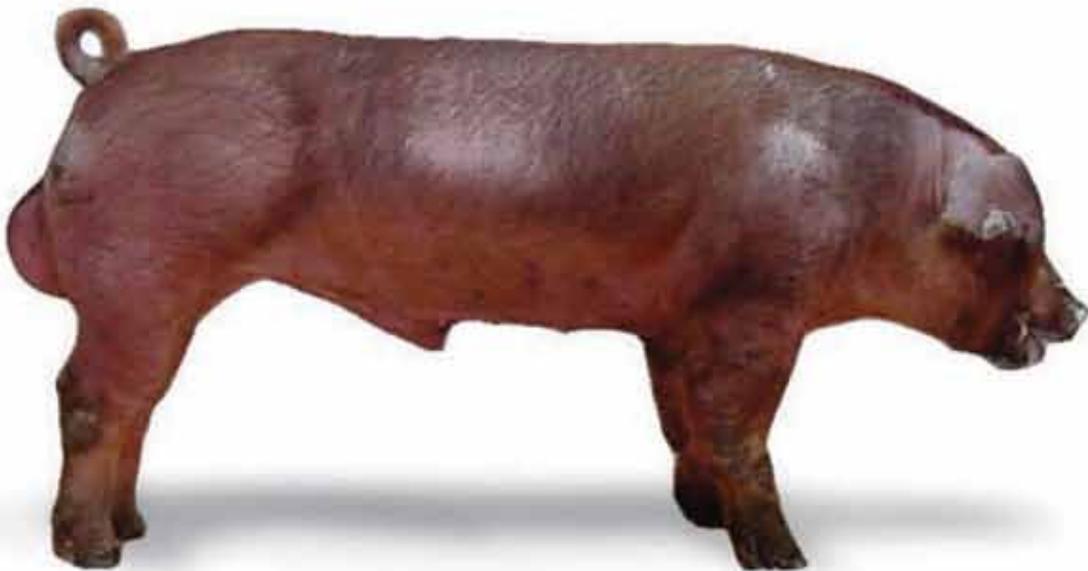


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