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YOUR BEST INVESTMENT, IS IN EXPERTISE

2013

THE EVOLUTION OF VALACTA ATLANTIC DAIRY PRODUCTION

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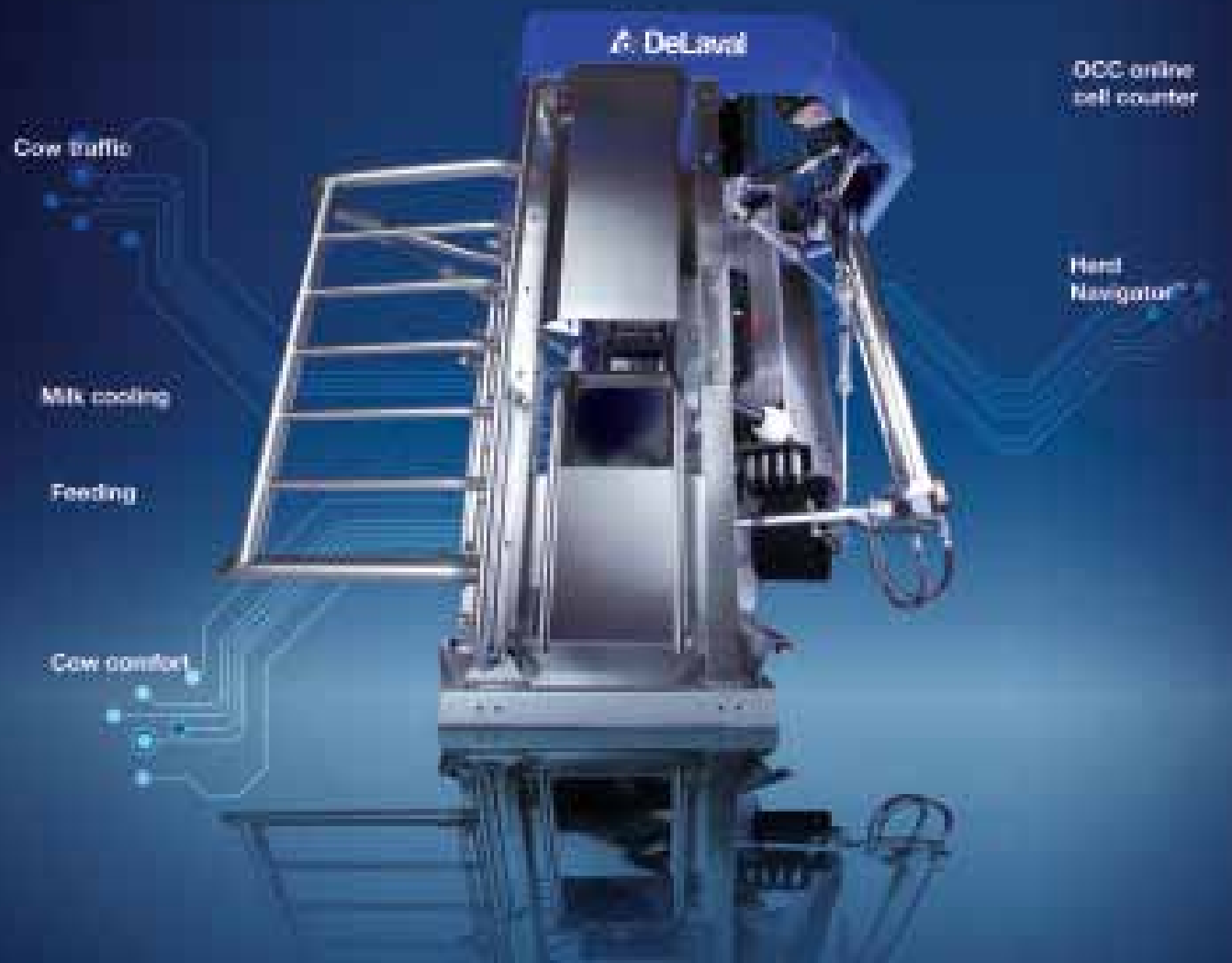

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valacta

YOUR BEST INVESTMENT, IS IN EXPERTISE.

YOUR MANAGEMENT DECISION

OUR PRESIDENT PIERRE LAMPRON, DAIRY EVOLUTION 2013

Looking at the Canadian statistics we can see that there has been continuous improvement in milk production. Going back only five years shows me that all the Atlantic Provinces have improved their average annual production by 500kg. Shouldn't we be proud of this? Since we are paid the Canadian average cost of production, isn't it worthwhile to do better than average? Of course! But what should we do to achieve this? Farms are all different, just like individuals. Therefore solutions differ. Is there one solution that could apply to all farms? Yes, there is one: good management! Whether you herd is small or large, whether you're producing organic or traditional milk, whether you have robots or not, you have to manage well to make money! How is it possible to manage without data? I don't have a clue! I want all the data I can get! I can only encourage you to look at all the precious data you can get from Valacta and to use it! Why not have you and your family benefit from a better profit margin? That's your management decision.

Do you know what Valacta can do for you? Reading this publication will not only give you a lot of interesting milk production data, but it will also inform you about the reports and services that could be an added value in your decision making. Which one will you decide to use? That's your management decision.

I'm proud to say that Valacta has won the Bronze award for quality at the Canada Awards for Excellence in 2013. You can have confidence in the services we offer. Milk recording is known worldwide to be profitable. If you are not using it right now, try it. In a few years, you will not remember how you were doing without your data. Your best investment is in expertise. Our expertise is in recording your data and processing it into profitable information for you. The origin of all our services is based upon one of your needs, one of your requests. Which one will you choose to use? That's your management decision.Enjoy reading Dairy Evolution 2012 and remember to take full advantage of all that Valacta has to offer. It is there for you.

Pierre Lampron,
Milk Producer and President.

AFTER GETTING NOMINATED AT THE GRANDS PRIX QUÉBÉCOIS DE LA QUALITÉ IN 2012, VALACTA RECEIVED THE BRONZE AT THE CANADA FOR EXCELLENCE AWARD IN 2013. WE ARE VERY PROUD OF BOTH PRIZES.

Daniel Lefebvre, General Manager and Humberto Monardes, McGill University receiving the award.

A WORD FROM YOUR REGIONAL MANAGER

JEFF GUNN, Regional Manager for Valacta Atlantic

This is my first message in our Valacta Annual Report as Regional Manager and I look forward to many more. Since my start in the position last June, I have had the opportunity to travel the Atlantic region, meeting with our technical team, many of our customers, and industry partners. I was familiar with milk recording from my time milking cows on our family farm, but certainly have had my eyes opened in the past year as to the services and level of expertise that Valacta can offer to the Atlantic region. I am excited to be a part of it.

The title of this year's Valacta Annual Report is **"Your best investment in expertise"** and this is really been our mantra over the past year as a group. As I travel the region and attend industry meetings, I hear about the challenges of our dairy farmers. Profitability is a key to the future sustainability of the industry and we at Valacta know that our customers want to receive value when they spend their hard-earned dollar. Research has shown that regions around the world that are enrolled on milk recording have higher milk production and milk quality, and increased profitability. We know that we need to do a better job of telling our story and demonstrating to our customers that Valacta services and management reports should be considered essential tools in the toolbox.

Valacta is truly a Centre of Dairy Expertise. Our technical team will continue to strive to offer a quality service, including milking supervision, sample collection and data entry. They will also be trained more on key reports. One of the unique aspects of Valacta reports is the benchmarks that highlight performance relative to others in the county, province and country. Being enrolled on Valacta ensures that producers are a part of this powerful Canadian data base used for genetic evaluation and industry improvement as a whole. We also have experts within the company in nutrition, forage systems, cow- comfort and on-farm technology that can provide unbiased recommendations and information to our customers.

I want to thank our Valacta Advisory Board for their support and guidance over the past year. It is important to realize that the various stakeholders in the dairy industry are represented on this Board and that these stakeholders have a voice in what we do. The feedback we receive is critical as we plot our course here in Atlantic Canada.

I also want to thank our Valacta team, both the one in Saint-Anne-de-Bellevue and our Atlantic Team. It is a pleasure working with such a dedicated, passionate and competent group of people. I look forward to helping the industry move into the future with all of you.

Please remember - if you don't measure it, you can't manage it. Until next time…

A WORD FROM YOUR BOARD MEMBER

DANNIE MACKINNON, Atlantic Board Representative

Valacta Atlantic had the great pleasure of adding two members to our management team this year. Mr. Denis Cyr from New Brunswick came on to the Valacta Board of Directors as an observer. Denis is a member of the Dairy Farmers of New Brunswick Board and brings a large knowledge of the dairy industry in Atlantic Canada to the Valacta table.

Jeff Gunn joined our team as regional manager for Valacta Atlantic. Jeff lives in Nova Scotia and comes to Valacta with a lot of experience in the dairy industry as well as in consumer services. Jeff is working hard at getting around Atlantic Canada to make connections with our clients and other partners in the industry. Welcome Jeff and Denis!

The theme of this year's report is **"Your best investment in expertise"**. The Atlantic Advisory Committee held a meeting in Charlottetown in October, 2013. This meeting was very well attended by the members of the industry. The message from this meeting was loud and clear. There are clients of Valacta that do not feel that they are getting value for their dollar spent. I had the opportunity to spend the next couple of days with our staff from the Atlantic region. They were trained on the value that is contained in the reports the farmer receives following a test. The staff was then challenged with spending more time with their clients to bring some of these items to their attention. This has paid off for us since we are seeing an increase in the demand for workshops throughout the region. At the time of writing this message, we have already had one round of workshops on forages that were very well attended. By the time you get to read this, it is our hope that you will have had the opportunity to attend more sessions on getting value from your reports. Valacta has a large amount of expertise within our organization. Please do not hesitate to ask your technician for help in any area of your operation.

Each year, I like to congratulate the Valacta clients who obtain their Master Breeder Shields from Holstein Canada . This year congratulations go out to Phillip Vroegh and Family at Sunny Point Farms. I do admire our breeders who can use the three breed improvement tools of milk recording, AI and Breed to take their herd to award winning status.

I would like to also take this time to thank our dedicated staff for many hours of hard work which requires early mornings, late nights and travel on all kinds of road conditions to supply service to our clients. Thanks for a job well done.

Denis Cyr,
Milk Producer from new-Brunswick and Observer on the Board of Directors.

Dannie MacKinnon
Atlantic Board Representative

OUR HERITAGE

Macdonald College, through the pioneering efforts of the late Dr John Moxley, embarked on an ambitious pathway of investments in knowledge, information and education in the dairy sector, many decades ago. This investment and partnership with the dairy producers and government, have led to the highly successful Valacta enterprise. The industry is today stronger as a consequence of Dr Moxley's dedicated and diligent work, and the investments made by Macdonald College and McGill University in the Quebec dairy industry.

A heritage of knowledge and expertise: Dr John E. Moxley

EXPERTISE IS CRITICAL TO PROGRESS

DANIEL LEFEBVRE, Ph.D., agr., General Manager at Valacta

Investing is always a choice. To fulfill our mission, Valacta chooses to invest not only in its own expertise but in that of its customers as well. This is why we offer a new training session every year and why so many of you take part. The most recent example is The Forage Challenge training attended by more than 25 % of our Atlantic clientele.

In order for Valacta to better meet your needs, we have invested in a very structured employee training program: with Ascent we can assess our employees' skills and ensure that they continue to evolve to serve you better! Lately we have put a lot of emphasis on training on our reports to help our customers understand better the precious information they have in their hands.

In the eyes of our founder, Professor John Moxley, on-farm data was to be an essential tool in dairy farming. We are still driven by this vision; today's dairy farm could not do without it, whether used for milk recording, herd health or business management. The technology used to collect and process the data, as well as how to present the information that it provides, continues to push us into the future and help our sector to remain competitive.

Our progress and expertise is at your service. Your investment in us is a solid one. Thank you for your confidence.

Happy reading.

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MILK RECORDING IS CRITICAL TO SUCCESS

BRIAN VAN DOORMAAL, General Manager, Canadian Dairy Network

While it is impossible to completely separate the various genetic improvement programs since they are so interdependent, it is critically important that every dairy producer in Canada enroll on milk recording and registers all animals in the breed association herdbook. These basic programs provide the fundamental components for recording the herd performance for the vast majority of traits that affect profitability. The use of artificial insemination, especially while qualifying for young sire testing programs, and type classification, would maximize the tools available for herd improvement and achieving net profit.

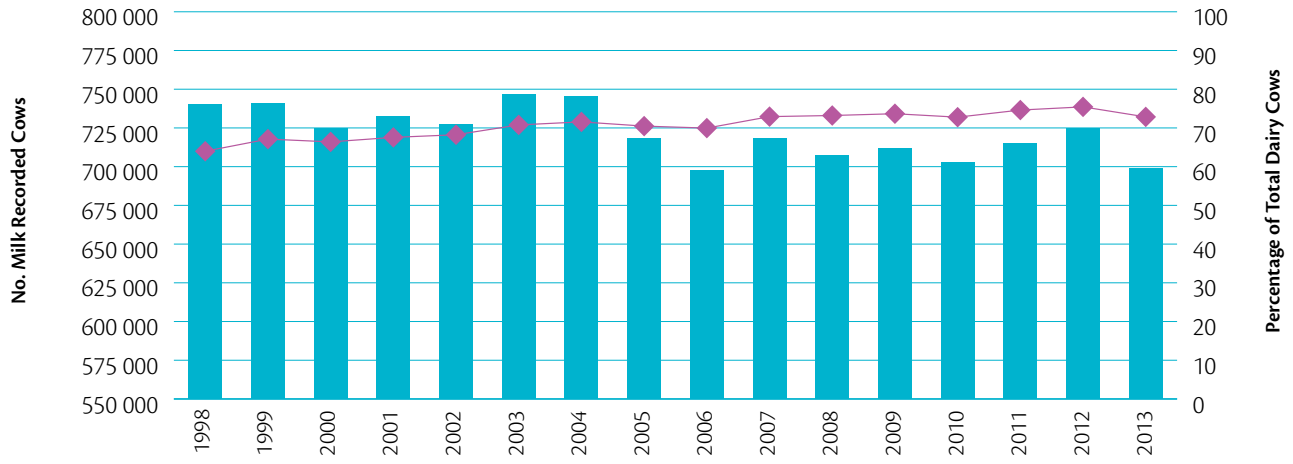
Figure 1 shows the evolution in the number of dairy cows in Canada from 1998 to 2013 as well as the percentages enrolled on milk recording and qualifying for publishable lactations. During this 15-year period, the number of total dairy cows in Canada decreased from 1.15 million to 959 100. Of importance, however, is the fact that the percentage of this dairy cow population that was enrolled on milk recording has increased from 64 percent to nearly 73 percent over the same time period. In other words, cows remaining in the population each year are increasingly within herds enrolled on milk recording since those herd owners have better herd management tools and are therefore more profitable. Also of interest is the fact that more and more cows are in herds enrolled on a milk recording program aimed at generating officially publishable lactation records. Since 1998, the percentage of the total dairy cow population that was enrolled on "publishable" milk recording has risen from 32 percent to nearly 43 percent, which translates to 58.7 percent of all cows on milk recording in 2013. Publishable lactations are displayed on official breed association pedigrees and contribute to the computation of annual herd averages, cow awards and master breeder shields, which all serve to recognize the successes of each herd owner.

DID YOU KNOW THAT…

Milk recording is universally accepted as the most valuable management tool available to modern dairy farming businesses.

Summary

There is no doubt that the Canadian dairy industry is changing, almost daily. Various forces affecting dairy producers and the industry in general have a significant impact on the decreasing number of dairy farms remaining from year to year as well as the increasing average herd size. Industry organizations work closely together to gain efficiencies in the breed improvement programs and services offered to dairy producers, including herdbook registration, artificial insemination using semen from proven sires and young bulls, milk recording, type classification, genetic evaluations and computerized mating programs. It is vital that more and more dairy producers see the value of these important programs as fundamental tools for herd management, genetic improvement and overall profitability.



CHOOSE TO PUT "MUN-EY" IN YOUR POCKET !

Feeding is crucial for maximizing milk production. Consequently, wasting nutrients is like throwing money out of the window! The PEI Laboratory*, in collaboration with Valacta, offers you a simple solution: MUN analysis.

MUN analysis is a great indicator of the efficiency of protein use from a ration. The higher concentration of urea, the larger the proportion of wasted feed protein, and the more excretion of nitrogen there is in the urine.

MUN values below 8 will result in lower production, probably due to a lack of protein availability in the rumen. Values higher than 14, however, will not translate into higher production.

MUN as a management tool

The scientific literature indicates that the safety range is between 10 and 16 mg N/dl, but we should aim for an average that does not exceed 12-13 mg N/dl. A higher MUN means a larger amount of feed protein wasted, and a higher nitrogen excretion through urine. On the other hand, in order to optimize microbial growth, a minimum concentration of ammonia is required in the rumen all day long. In the absence of ammonia, microbes could face a lack of nitrogen, which would deprive the cow of microbial protein.

*The Dairy Composition section of PEI Analytical Laboratories tests all milk samples received as part of the Valacta herd recording program. The MUN analysis are also done at the PEI laboratories.

Values	Possible Causes	Possible Effects	Observations at the Barn
High	• Lack of fermentable energy • Grain milling too coarse • Deficient feeding sequence • Too much DIP	• Low production ($) • Low protein test ($) • Embryo mortality ($) • Nitrogen wastes ($) • Low persistency ($)	• Liquid manure • Grains in manure • Poor body condition • Increased water intake • Lower DMI
Low	• Low feed intake • Deficient calving preparation • Too much fermentable energy • Forages poorly degraded • Forages low in DIP • DIP deficiency • High P requirement for growth	• Limited microbe population • Increased UIP requirement ($) • Lower production ($) • Acidosis ($)	• Lower DMC • Pale manure • Firm manure • Grains in manure • Fibres > 5 mm in the manure sifter

MUN ANALYSIS:
ADOPTED BY PURE HOLSTEINS LIMITED

Pure Holsteins Limited, located in Corner Brook , NFLD, was founded in September of 2011 by Sara (originally from Boreview Holsteins, Lower Coverdale, NB), and David Simmons. Both Nova Scotia Agricultural College graduates, they have applied their passion, knowledge and experience to how they manage their farm, on a daily basis – and it shows. They have spent the last 6 years trying to breed for high type and production, all around beautiful Holstein's. They feed high quality, consistent forages and manage their inventories to ensure a 12 month supply. In David's words, "Our goal is to produce high quality, profitable milk from high quality cows."

The Simmons Family at Pure Holsteins Limited

They are strong believers in the importance of using the information made available to them through registration and classification by Holstein Canada, and milk recording and data management by Valacta. Since they started farming in 2011, they have used the reports and tools offered by Valacta.

David was recently interviewed by Jeff Gunn, Regional Manager at Valacta to get his thoughts on the MUN (Milk Urea Nitrogen) analysis:

Valacta:
What first made you decide to do the MUN analysis offered through Valacta?

David:
We did it because our nutritionist asked us to, and we believe in using information available to us in order to validate what we can physically evaluate or observe in the barn. We maintain an open line of communication with our nutritionist at all times and use the tools at our disposal to make better management decisions. The MUN test does this.

Valacta:
How does it do this? Why do you like the MUN test?

David:
It tells us whether we are over or under-feeding protein which means potential money in our pocket. The MUN report provides a snap-shot of whether nutritional adjustments are required and we do the analysis every month because the more tests you do, the easier it is to identify trends at specific times of the year.

Valacta:
Do you feel it has, or will save you money?

David:
We see the MUN test as a reinforcement of our decision making. We work closely with our nutritionist to ensure a balanced, consistent, high quality diet to the cows. The MUN test and the information in the MUN report validate the management decisions we make.

Valacta:
What would you say to other producers not using tools like MUN?

« THE MUN TEST AND THE INFORMATION IN THE MUN REPORT VALIDATE THE MANAGEMENT DECISIONS WE MAKE."
–David Simmons
from Pure Holsteins Ltd

David:
I would say that the only way to effectively manage your farm and to be profitable is to keep records and utilize information, reports and tools available to you. Tools like the MUN test through Valacta do this. If you do not keep good records and measure performance, all your decisions are based on speculation. We cannot afford to speculate – we would not be in business very long.

To learn more about Pure Holsteins Limited, visit their website at *http://pureholsteins.com*.

TITRE LOREM IPSUM

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Forage challenge - Charlottetown, PEI


Valacta at the Dairy focus


Value of Valacta Reports - Sussex, NB

HOW DO YOU HANDLE YOUR COWS SAFELY AND WITHOUT CAUSING STRESS?

STEVE ADAM, agr., Dairy Production Expert – Comfort, Behaviour and Well-Being

JULIE BAILLARGEON, M.Sc., agr., Research Project and Technology Transfer Coordinator Valacta

You handle your cows on a daily basis: you milk them, move them from one stall to another, treat them and glam them up for the show ring. You've spent your entire life with cows and these hefty animals hold no secrets for you now. But who amongst you hasn't been the target of a good kick in the shins, even from a cow you thought you knew well?

In Canada, working with animals is the main cause of injuries requiring hospitalization (18.7 per cent), and animal-related injuries accounted for nearly six per cent of deaths in the agricultural community from 1990 to 2000. Even when you're working with a cow you know well, an animal's reaction is always a risk for humans. Fortunately, it is possible to prevent some of the reactions that put you and your cows at risk. To ensure your handling is in line with natural cattle behaviour, it is important to have a good understanding of how cows communicate and respond to their environment.

Humans are predators

With eyes located on the sides of their head, cows are prey animals in nature. Conversely, we humans, with eyes in the middle of our faces, are the predators! So it's unnatural for cattle to be domesticated by a predator, who would normally be considered an enemy. Hence the cow's first instinct is to be suspicious. Although temperament may be the result of genetics, an animal's disposition is often shaped by its past experiences. Cows handled from an early age tend to be less distrustful of humans. Because they are unable to comprehend our intentions during handling, they simply respond to specific commands. Animals that are under stress are completely unpredictable and present a definite risk for their handlers.

Cow vision

A cow's vision is not sharply focused but can be improved by providing adequate lighting, specifically, 200 lux. Cows are more sensitive to warm colours (yellow, red) than to cold colours (dark blue, black). Because of the morphology of their eyes, cows require more time than we do to adapt to sudden changes in light. For example, cows entering a dark building from outside, or vice versa, will need a few minutes to adjust their vision. Hence it's important not to rush your animals so they have time to adapt.

Cows are only able to see in three dimensions (3D) in a 30-degree angle in front of them. To see clearly, cows focus specifically on the object they want to see. Cows also have difficulty with depth perception, particularly in the dark, and will often take some time to judge the depth of a gutter, for example. Once again, it is important not to rush your animals and to give them time to put their minds at ease. Adding light-coloured bedding will also help your animals see depth more clearly. Any shadows or changes in texture or colour in your cows' path will cause them to hesitate in their movements.

Cows under extreme stress are practically blind in the area of binocular vision (in front) and must rely solely on their peripheral vision. So it's not surprising to see animals walking straight into a fence as they come out of the barn in the spring… to say nothing of the effect of the glaring sun on their vision.

A good schnoz!

Thanks to their keen sense of smell, probably the most highly developed of their senses, cows are able to detect odours that are imperceptible to humans. A small organ located in the palate

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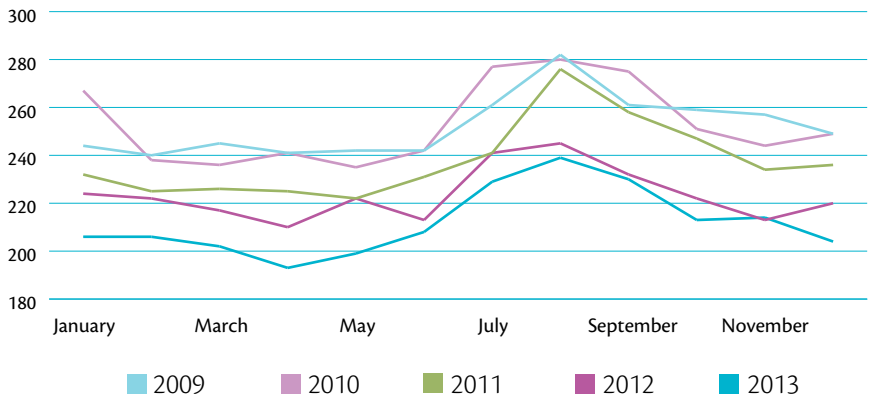
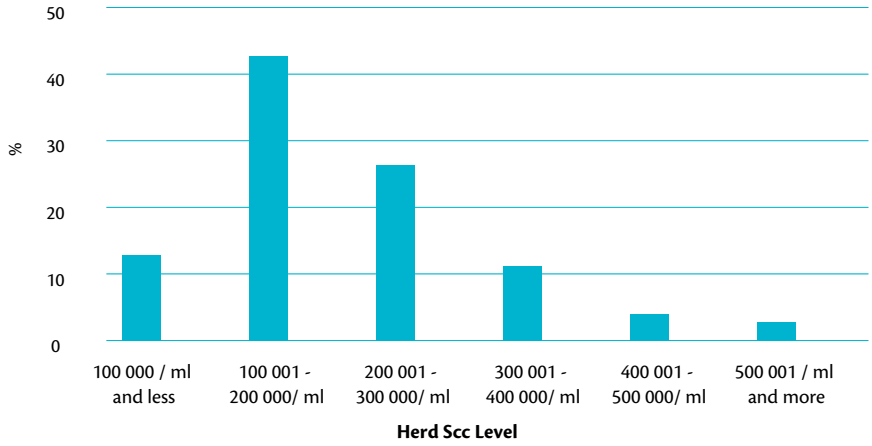
SOMATIC CELL COUNT
IN ATLANTIC

SOMATIC CELL COUNT
VARIATION

by Month in the Atlantic Canada 2009-2013 ('000 c.s./ml)



DISTRIBUTION OF HERD
SCC TESTS IN 2013



enables cows to smell pheromones, adrenalin and some toxins. In addition to detecting the estrus cycle, the organ also enables cows to sense danger close by. A stressed cow in a restraining chute leaves an odour that may cause the next cow to suffer stress as it approaches the contaminated chute.

A new cow introduced into a group has her own particular odour and may become a target for congeners, who perceive the intruder in the pen. Camouflaging the new cow's odour with vinegar on the animal's back could help make the cow less discernible to pen mates. Introducing a number of new cows at the same time also helps dilute the attention that would otherwise be focused on a single animal.

Likewise, handlers each have an individual olfactory "ID card" that the cows come to associate with a positive or negative attitude. Cows are able to use their sense of smell to recognize individuals and associate them with treatments that may be more or less pleasant.

A few tricks of the trade...

- **When entering a stall:** establish visual contact with the cow and place your hand firmly on the animal's back to indicate your reassuring presence. When a cow is taken by surprise, it can take up to 30 minutes before the stress hormones dissipate.

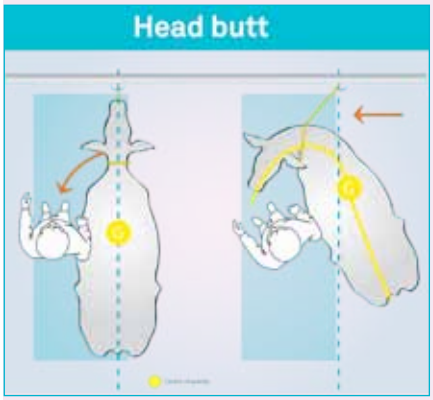
- **To avoid a head butt:** When a cow wants to butt a handler, the head movement and neck flexing will necessarily be preceded by a twisting of the animal's vertebral column and a shifting of her centre of gravity. That centre of gravity, located more or less in the middle of the cow's back, will move away from the person positioned near the animal's neck (Figure 1).

- **To avoid being kicked:** When lifting a foot, a cow must necessarily realign her vertebral column so that the feet remaining on the ground form a triangle in order to maintain her balance (Figure 2).

- **To avoid being knocked:** This often happens while handling an animal's head or neck. The cow will crush the handler against the tie rail or the stall divider. The animal's hindquarters will move toward the handler as the cow pivots around her centre of gravity (Figure 3).

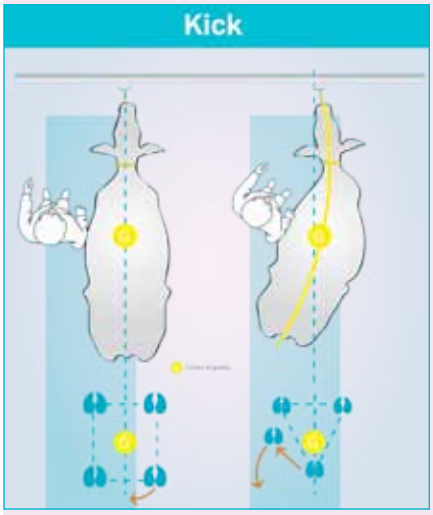
What all these behaviours have in common is the rearrangement of the alignment of the vertebral column in order for the animal to find its point of balance. Besides recognizing the movements that precede a blow, trying to keep the animal's vertebral column straight will make it difficult for the cow to move suddenly. This may require the presence of two people when the handling takes place in the stall. For more involved handling, a squeeze chute is an indispensable tool to ensure the safety of both the animal and the handler.

Figure 1



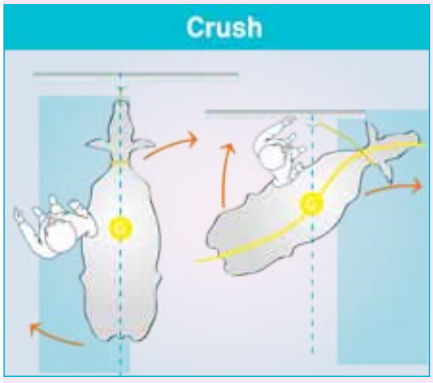
Representation of the handler's position

Figure 2



Ag = LF (left foreleg); Ad = RF (right foreleg); Pg = LH (left hind leg); Pd = RH (right hind leg

Figure 3



Sometimes,
it's good to put
all your eggs
in one basket.

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MILK SAFE

[1] Pierson F, Thomas, Bassett, Mapletoft, Jerry F Kastelic and Terry Concannon. The effects of timed gonadotrophin-releasing hormone, ovulation and follicular wave emergence in heifers. Can Vet J. Volume 41, February 2000, 125-131. [2] Based on Canadian CYSTORELIN® product label. [3] Canadian Quality Milk On Farm Food Safety Program Reference Manual June 2016.

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MERIAL

BARKOF HOLSTEINS INC – THE VALUE OF VALACTA

Joeren Barkof originally immigrated with his parents from the Netherlands in 1998 to Ponoka, located in central Alberta. It was there that he met his future wife, Jessika who grew up in Fairview, a small town in northern Alberta. Jessika had never seen a dairy farm until she met Joeren. In April 2013, they took the journey across Canada to start their new life and got married in October. They started farming in Head of Millstream, NB on May 1st, 2013.

Joeren grew up on the dairy in Holland and had always been fascinated by it. "I always loved working with the cows and out in the fields harvesting, etc. I've worked on the side at a hog farm and for seven years at a chicken farm, but dairy was just in my blood. I love the diversity of the dairy, you

Jessika and Joeren from Barkof Holsteins Inc.

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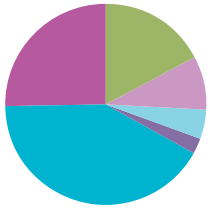
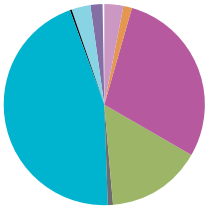
MILKING SYSTEM TYPE
IN THE ATLANTIC PROVINCES

Feeding system



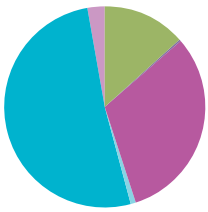
	%
Automated Concentrate Distributor	17.3
Computerized Automated Concentrate Distributor	8.7
Automated Forage Distributor	4.7
Silage and Concentrate Distributor	2.4
Traditional	41.7
TMR	25.2

Milking system type



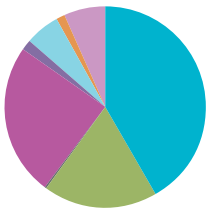
	%
Individual Stall Parlour	3.3
Rotary Parlour	1.2
Herringbone Parlour	29.0
Parallel or right angle Parlour	15.4
Parabone Parlour	0.9
Pipeline	45.0
Buckets	0.3
Step-Saver	0
Flat Barn Palour	3.0
Robotic System	2.1

Barn type



	%
Head to Head	13.5
Head to Tail	0
Single Row	0.3
Tail to Tail	31.4
Multiple Row	0.9
Free Stall	51.3
Loose Housing	2.6
Other	0

Milking system brand



	%
DeLaval (Alfa-Laval)	41.7
Surge	18.3
Germania	0.3
BouMatic	24.6
Westfalia	1.5
Universal	5.7
Lely	1.2
Prolion	0
Gascoigne Melotte	0
Dairymaster	0
WestfaliaSurge	6.6
Insentec	0
Milkomax	0

"THE INFORMATION THAT VALACTA PROVIDES ALLOWS US TO MANAGE THE OPERATION AND MAKE DECISIONS ON A DAILY BASIS." SAYS JOEREN

never know what the day is gonna bring ya. And you're not working in a barn all year long."

Joeren and Jessika milk 80 cows in a free-stall barn with a double-ten herring bone parlor. They work very hard on producing quality forages to keep the concentrates fed to a minimum. For Joeren and Jessika, getting to know the performance of each cow is of particular importance so they are enrolled in registration, classification and milk recording.

Recently, Jeff Gunn, Regional Manager of Valacta here in Atlantic Canada, had a chance to speak with Joeren about the services they receive from Valacta and why they believe in the value of milk recording.

Jeff:
Why did you decide to become a Valacta customer?
Was there a particular reason?

Joeren:
We moved here from Alberta and had always been on DHI. We believe strongly in being able to measure cow performance and profitability. The information that Valacta provides allows us to manage the operation and make decisions on a daily basis. We could not make informed decisions without the information Valacta provides.

Jeff:
Rising costs are becoming one the biggest challenges facing dairy farmers today. Why do you believe that Valacta contributes value to your operation?

Joeren:
The wealth of information that comes from the reports is a key in how we make decisions every day. In particular, the Somatic Cell Report is used to make decisions on overall herd health. The Herd Summary Report is another report we use regularly as it provides us with benchmarks and a snapshot of how the herd is performing. We just started taking advantage of the MUN analysis in the past couple of months and intend to continue doing this every month as it is a very effective tool in helping us determine whether we are over- or under-feeding protein in the ration.

Jeff:
Not all dairy producers are on Valacta in Atlantic Canada, although there is a great deal of research showing that being on milk recording contributes to increased milk production and improved profitability. What would you say to producers not on Valacta?

Joeren:
I hear some producers say that they would not use the information and it is just another expense they do not need. This is not how I see it. You WILL use the information, even if you do not think you will. For example, when I need to make a decision on what cows to cull, I immediately refer to my Valacta reports. I am a big believer in making informed decisions and Valacta helps me do that.

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PLANNING
YOUR FORAGE HARVEST

ROBERT BERTHIAUME,
Ph.D, Forage Systems Expert, Valacta

1. WHEN? Decide when you are going to start. Since we're talking about the stage of maturity of the plant rather than the calendar date, you need to decide at what stage you intend to harvest and how you will identify that stage, e.g., I want to harvest at the bud stage and I will start doing the rounds of my forage stands as of May 15.

2. HOW MANY? How many forage boxes, round or large square bales, hectares of mowing, etc., should I harvest?

3. WHAT'S YOUR TIME WINDOW? To obtain high quality forage, the bulk of the forage must be harvested at the optimum stage of development. But harvesting at the right stage isn't always easy, and that's where good harvest planning can help us out. The challenge isn't the same if we have three days to do it in as opposed to ten. We mustn't forget that this is where weather will have the greatest impact. In June, there is a 50 per cent chance of getting a day of good weather. If all the operations are carried out the same day, that means we'll have a one in two chance of being able to harvest. If we mow one day and ensile the next, however, that likelihood drops to a little less than a one-in-three chance. And it's a one-in five chance if we ensile a day later (three days in the field).

WHEN?

HOW MANY?

WHAT'S YOUR TIME WINDOW?

Detailed planning

The planning exercise should enable you to anticipate all of the elements involved in the work chain and identify the critical points of the system, so you can take measures to minimize the risks and make provision for a just-in-case Plan B.

FOR EXAMPLE:

- Do a thorough annual inspection of all the harvest equipment during the winter.
- Organize your work force ahead of time and meet with your team a few days prior to the start of the harvest to go over the operations involved.
- Identify one person who could stand in at a moment's notice for a member of the harvest team who might be sick or injured at the wrong time.
- Make plans for an alternative solution in case of a machinery breakdown. Discuss the matter ahead of time with your neighbours, dealerships or even custom operators.
- Think about improving all the factors that could limit the speed or capacity of your harvest operation, and take measures to correct the situation if necessary.

22

HARVEST PLANNING

Harvest planning on the Springfield brothers' farm

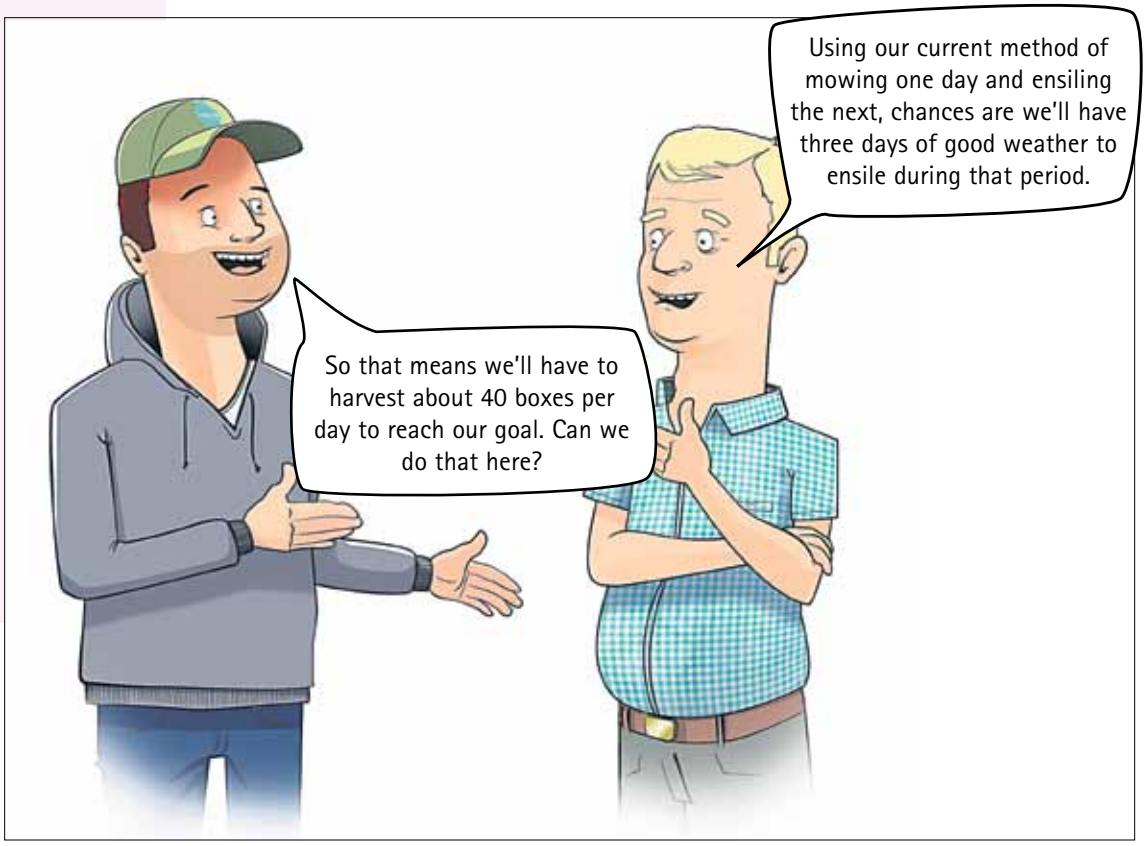
The Springfield brothers are already thinking about the 2013 harvest. Serge will start doing the rounds of the stands around May 20; he estimates that if this is a normal year they'll reach their optimal stage around 5 June.

Forage quality will decline rapidly after 10 June. The brothers have 120 forage boxes (250 t.d.m.) to do. They decide to aim for the period from June 1 to 10. Is it possible? To answer Serge's question, the brothers will need to take the time to sit down and do some serious planning.

To start with, they'll have to determine:

- the hourly capacity of each operation (machine or group of machines);
- the work time available each day.

Once that step is completed, the brothers will be able to determine if their goal is feasible. If not, they'll have to reconsider their approach and find solutions to the limiting factors.



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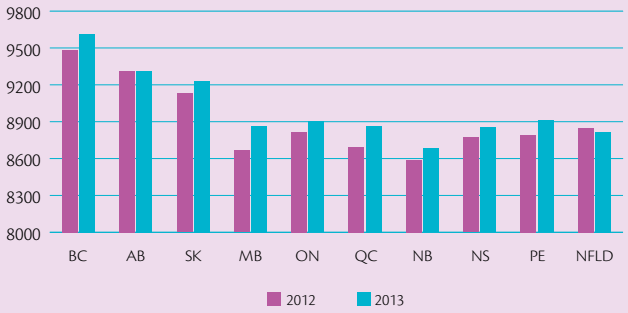
NATIONAL STATISTICS

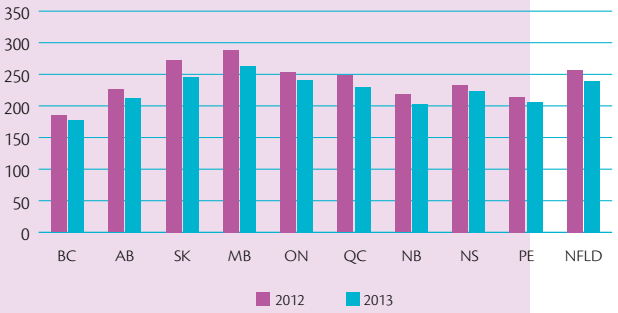
Dairy Herd Statistics by Province

Province	Recorded Herds		Recorded Cows		Average herd size		% herds > 100 cows	% recorded herds
	2012	2013	2012	2013	2012	2013		
Newfoundland	5	5	710	711	142.00	142.20	80.00	14.71
PEI	118	113	9253	8797	78.42	77.85	19.47	58.70
Nova Scotia	148	146	12646	12070	85.45	82.67	22.60	63.09
New Brunswick	142	136	12048	11536	84.85	84.82	27.21	68.93
Quebec	4989	4872	296925	289073	59.52	59.33	8.42	79.23
Ontario	3128	3056	243726	234401	77.92	76.70	18.85	77.30
Manitoba	202	197	27575	27203	136.51	138.09	40.61	62.70
Saskatchewan	105	102	18016	16995	171.58	166.62	70.59	62.30
Alberta	455	433	62682	57747	137.76	133.36	61.66	78.00
British Columbia	307	310	46473	45776	151.38	147.66	58.39	6.10
CANADA	9599	9370	730054	704309	76.06	75.17	18.00	76.20

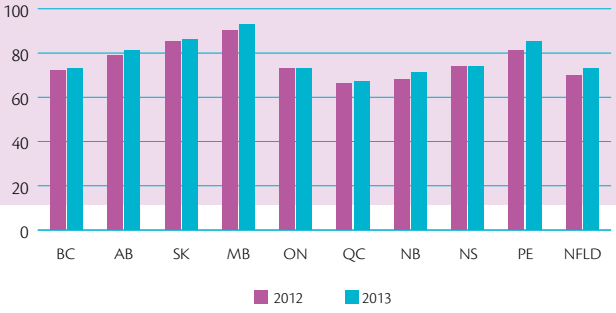
MILK PRODUCTION (kg) PER COW PER PROVINCE



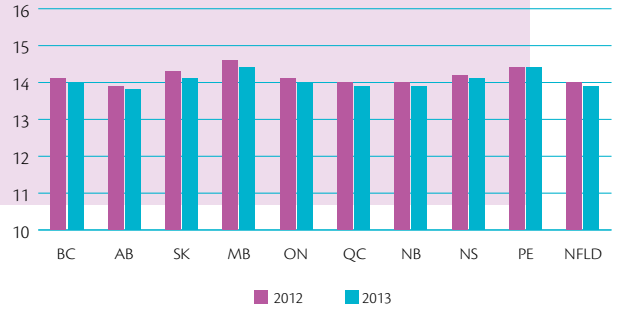
SOMATIC CELL COUNT AVERAGE BY PROVINCE



AVERAGE DRY PERIOD (DAYS)



CALVING INTERVAL (MONTHS)



PROVINCIAL STATISTICS

Valacta-Atlantic Production And Management Averages - December 2013

Breed	Average	Percentile 10	Percentile 90	Breed	Average	Percentile 10	Percentile 90
Milk Production (kg)				**Fat, kg (%)**			
Holstein	9024	7381	10517	Holstein	349 (3.87)	280 (3.62)	44(4.14)
Ayrshire	6897	5940	7964	Ayrshire	289 (4.19)	238 (4.00)	334 (4.40)
Jersey	6142	4730	7321	Jersey	305 (4.95)	240 (4.70)	362 (5.21)
All Breeds	8882	6954	10489	All Breeds	346 (391)	276 (3.63)	414 (4.23)
Age at First Calving (yy-mm)				**Protein, kg (%)**			
Holstein	2-3	2-7	2-0	Holstein	286 (3.18)	234 (3.05)	335 (3.31)
Ayrshire	2-5	2-8	2-3	Ayrshire	230 (3.34)	197 (3.26)	263 (3.52)
Jersey	2-3	2-5	2-0	Jersey	229 (3.72)	177 (3.60)	266 (3.83)
All Breeds	2-3	2-7	2-0	All Breeds	283 (3.20)	228 (3.05)	334 (3.33)
Weight at First Calving (kg)				**Average Herd Weight including Cow-Heifers (kg)**			
Holstein	608	568	648	Holstein	638	600	684
Ayrshire	528	518	541	Ayrshire	563	547	588
Jersey	478	448	497	Jersey	491	450	497
All Breeds	603	556	647	All Breeds	631	592	683
Longevity (% 3rd Lactation plus)				**Margin Over Feed Cost ($/cow/year) ***			
Holstein	38.1	26.4	49.0	Holstein	4600	3540	5618
Ayrshire	46.9	39.2	55.0	Ayrshire	3659	3185	4120
Jersey	43.1	30.9	53.4	Jersey	--	N/A**	--
All Breeds	38.5	26.5	49.6	All Breeds	3864	3312	4416
SCC ('000 s.c./ml)				**Other Parameters (All Breeds)**			
Holstein	211	314	125	Cows in Milk (%)	85	80	90
Ayrshire	178	256	112	Replacement Rate (%)	39.4	24.7	54.2
Jersey	220	281	141	Dry Period (days)	76	105	54
All Breeds	210	281	141	Calving Interval (days)	428	475	394
				Linear Score	2.5	3.1	2.0

*** Milk Value Minus Feed Cost**
**** a minimum of 5 herds is required to calculate an average this minimum not met**

Provincial 305 Day Production Average

Province & Service Level	Herds	Milk kg	Fat kg	Protein kg	BCA M	BCA F	BCA P	Avg BCA
New Brunswick								
Publishable	100	9 045	350	289	204	206	203	204.4
All	141	8830	341	282	199	201	198	199.5
Nova Scotia								
Publishable	113	9 451	365	301	209	215	208	210.7
All	150	9 198	354	293	203	208	203	204.9
Prince Edward Island								
Publishable	91	9 406	367	295	207	216	204	209.3
All	118	9 232	360	289	203	212	199	204.8
Newfoundland								
Publishable**								
All	5	9261	363	291	202	213	200	205.1

*** A minimum of 5 herds is required to publish an average - this minimum is not met*

Annual Provincial Herd Demographics - All Herds

Herd Size (Cows)	% Herds	% Animals	Annual Average Herd Size	Annual Milk Production	Annual Fat Production (kg)	Annual Fat Production (%)	Annual Protein Production (kg)	Annual Protein Production (%)	Annual Average SCC ('000/ml)
New Brunswick									
1-39	16.2	5.8	30	7472	302	4.11	245	3.32	205
40-79	44.9	30.3	57	8669	337	3.9	279	3.23	202
80-119	22.8	26.1	97	8812	344	3.92	285	3.25	218
120+	16.2	37.9	199	9743	377	3.87	306	3.16	184
Nova Scotia									
1-39	12.2	4.1	29	7821	306	3.93	252	3.22	253
40-79	51.0	35.1	57	8643	334	3.87	279	3.23	226
80-119	21.1	24.5	95	8951	344	3.83	283	3.17	246
120+	15.6	36.4	191	9796	382	3.9	309	3.16	213
Prince Edward Island									
1-39	13.3	5.3	31	7963	313	3.94	253	3.17	180
40-79	54.9	39.9	57	8843	349	3.94	281	3.18	210
80-119	20.4	24.7	95	9358	371	3.96	295	3.15	203
120+	11.5	30.0	205	9530	368	3.87	295	3.1	223

PROVINCIAL STATISTICS

Management Center Benchmarks

Measure	New Brunswick Percentile				Nova Scotia Percentile				Prince Edward Island Percentile				Newfoundland Percentile			
	25th	50th	75th	90th	25th	50th	75th	90th	25th	50th	75th	90th	25th	50th	75th	90th
Annual Milk Value ($)	5681	6321	7080	7720	5734	6494	7161	7696	5825	6436	7060	7437	5595	7659	8373	9019
Somatic Cell Count (000/ml)	299	240	194	151	319	262	217	166	311	257	190	152	326	269	199	148
Udder Health (Scc Linear Score)	33	2.8	2.5	2.2	3.1	2.8	2.5	2.2	3.2	2.9	2.5	2.2	3.0	2.7	2.5	2.2
Age at 1st calving (Year-Month)	2-7	2-5	2-3	2-1	2-7	2-5	2-3	2-1	2-7	2-5	2-3	2-2	2-4	2-3	2-2	2-1
Calving Interval (months)	15.0	14.4	13.7	13.2	15.4	14.7	14.0	13.3	15.8	14.9	14.2	13.6	14.7	14.3	13.6	13.2
Longevity (% of herd in 3+ lactation)	34	39	45	50	34	40	44	49	31	38	42	51	28	36	39	41
Herd Efficiency (% of herd in milk)	84	87	89	91	83	86	88	89	81	85	88	90	84	86	87	88
Herd Turnover (% of herd in removed)	52	45	38	29	53	46	37	31	90	88	85	81	48	37	36	35
Number of Cows	45	66	100	152	46	66	97	140	48	62	86	125	82	114	174	210
Management Milk (kg)*	27	31	34	37	28	32	35	37	29	33	35	37	23	32	35	37
Days Dry	89	78	67	60	95	85	69	61	125	103	78	62	79	73	71	68
Days to 1st Breeding	107	97	84	77	120	99	89	91	115	99	88	76	97	79	72	65

**Management Milk Measure : Brings age, stage of lactation and energy-corrected milk to a standard number for comparison purposes*

photo de lait ou de vache
???
En avez-vous à proposer?

Top Publishable Cow Records By Breed By Province 2013

Breed	Cow Owner, Farm Name, Town	Sire	Age	Avg BCA	BCA M	BCA F	BCA P	Milk	Fat	Protein
New Brunswick										
Holstein	**Walkerville Pat Gold** Paul Walker, Walkerville Farms, Wards Creek	Braedale Goldwyn	3/2	366.7	346	426	328	15723	728	482
Jersey	**Cyrror Blueprint Codina** Rejean Cyr, Ferme Cyrror, Siegas	Rejean Cyr, Ferme Cyrror, Siegas	3/5	313.3	355	260	325	10642	427	370
Ayrshire	**Braefield Ice Man Sahara** Frank A. Waterston, Braefield Farms, Penobsquis	Kellcrest Ice Man Et	8/6	274.0	284	261	277	11626	428	374
Guernsey	**Guernsey View Missy'S Ultimate** Frank Gordon, Cedar Ridge Farms Ltd, Keswick Ridge	Sniders Option Aaron-Et	4/4	274.0	282	260	280	9281	434	328
Brown Swiss	**Prinsville Eskimo Veronica Et** Don Howe, Boreview Farms Ltd, Lower Coverdale	Harts Elm Park Eskimo Et	5/1	259.3	254	272	252	10538	451	365
Shorthorn	**Landslide Pluto** Ronald Hornbrook, Landslide Ayrshires, Mount Middleton	Oceanbrae Logic'S Plato	2/1	229.7	226	239	224	5466	237	177
Nova Scotia										
Holstein	**Sunnypoint 1192 Stanley** Philipp Vroegh, Sunny Point Farms Ltd, Hants County	Langs-Twin-B Stanley-Et	3/4	396.0	392	415	381	18095	705	560
Jersey	**Lencrest Legacy Dixie** Eric Thompson, Pine Haven Farms Ltd, Oxford	Hollylane Lilibet'S Legacy	3/0	350.3	351	349	351	9663	531	365
Shorthorn	**Eloc Plato Logielicious Et** Sandy & Dean Cole, Eloc Farm, Middle Musquodoboit	Oceanbrae Logic'S Plato	1/10	305.3	314	274	328	7232	260	246
Ayrshire	**Phinneyval Karaoke Karagon** Danny Phinney, Phinneyval Farms, Bridgetown	Hautpre Karaoke	3/1	304.3	306	296	311	10664	429	358
Brown Swiss	**Fynhaven Agio Jamie** Danny Phinney, Phinneyval Farms, Bridgetown	Barmettler Bs Ace Agio Et *Tm	3/0	263.7	258	280	253	9547	420	329

Animals highlighted in blue represent the top animal for that breed in all provinces

PROVINCIAL STATISTICS

Top Publishable Cow Records By Breed By Province 2013

Breed	Cow Owner, Farm Name, Town	Sire	Age	Avg BCA	BCA M	BCA F	BCA P	Milk	Fat	Protein
Prince Edward Island										
Shorthorn	**Oceanbrae Fawn'S Accent-P Et** Fred Barrett, Oceanbrae Farms, Miscouche	Bar-D Krause'S Fawn'S C.D.	3/2	476.0	371	644	413	9815	696	355
Holstein	**Blue Diamond Super Shot** Thomas Robinson, Blue Diamond Farm, Kinkora	Picston Shottle-Et	3/3	362.3	405	297	385	18134	493	554
Ayrshire	**Forever Schoon Perfecta -Et** Garnet Schellen, Forever Schoon Farms, Vernon	Margot Calimero	4/11	359.7	323	398	358	11888	601	433
Jersey	**Sildajak Velocity Basil Et** Fred Barrett, Oceanbrae Farms, Miscouche	Elliotts Golden Velocity-Et	4/2	288.3	319	278	268	10724	506	340
Newfoundland										
Holstein	**Almalee Tom Theresa** Lee Noel, N And N Farm Ltd, Cormack	Hartline Tom-Et	4/1	326.0	317	347	314	16237	662	508
Ayrshire	**Larch Grove Pardon Me** Ian Richardson, Larch Grove Farms, Cormack	Woodland View Pardner Et	9/9	181.3	192	175	177	7789	283	235

Animals highlighted in blue represent the top animal for that breed in all provinces

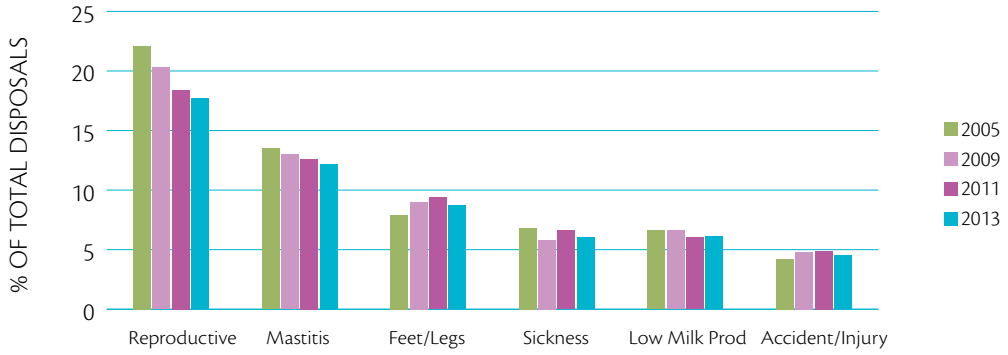
Top Publishable Herds by Herd Size - All Provinces

Herd Size	Farm Name	Location	Records	Breed	Avg BCA	BCA M	BCA F	BCA P	Milk kgs
Small Herds (5-39 Records)	Oceanbrae Farms	Miscouche, PEI	35	MS	289.0	290	284	293	7 809
	Musqie Valley Farms	Middle Musquodoboit, NS	14	JE	256.0	256	257	255	7 734
	Phinneyval Farms	Bridgetown, NS	11	AY	239.7	231	248	240	7 839
Medium Herds (40-79 Records)	Roman Valley Holsteins	St. Andrews, NS	40	HO	270.0	265	273	272	12 301
	Pine Haven Farms Ltd	Oxford, NS	47	JE	256.3	259	253	257	7 819
	Bonnielm Farm Ltd	Ford Bank, NB	61	HO	253.3	245	255	260	11 134
Large Herds (80-119 records)	Bekkers Farm Incorporated	Antigonish, NS	97	HO	258.3	258	265	252	11 864
	Macbeath Farms Ltd	Marshfield, PEI	94	HO	252.7	251	259	248	11 600
	Prime Valley Holsteins	Apohaqui, NB	110	HO	245.3	250	242	244	11 368
Very Large Herds (120+ records)	Sunny Point Farms Ltd	Hants County, NS	242	HO	290.0	285	303	282	13 070
	Lawrence'S Dairy Farm Ltd.	Burtts Corner, NB	134	HO	283.3	281	295	274	12 679
	Macgregor Dairy Farm Ltd	Eureka, NS	273	HO	277.7	283	274	276	12 814

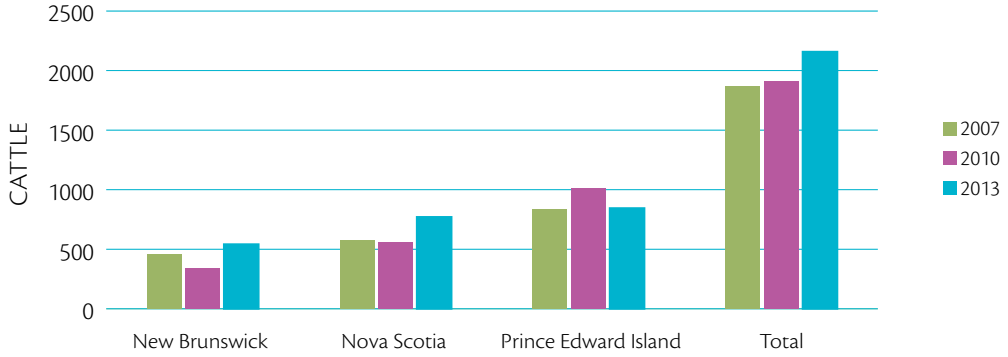
Top Publishable Herds by Breed - All Provinces

Breed	Farm Name	Location	Records	Avg BCA	BCA M	BCA F	BCA P	Milk kgs	Fat kgs	%	Protein kgs	%
Ayrshire	Phinneyval Farms	Bridgetown, NS	11	239.7	231	248	240	7 839	347	4.43	268	3.42
Brown Swiss	Vano Farm	Antigonish, NS	7	222.0	218	234	214	8 933	381	4.27	306	3.43
Guernsey	Cedar Ridge Farms Ltd	Keswick Ridge, NB	39	216.3	221	213	215	7 261	351	4.83	251	3.46
Holstein	Sunny Point Farms Ltd	Hants County, NS	242	290.0	285	303	282	13 070	516	3.95	411	3.14
Jersey	Pine Haven Farms Ltd	Oxford, NS	47	256.3	259	253	257	7 819	413	5.28	293	3.75
Shorthorn	Oceanbrae Farms	Miscouche, PEI	35	289.0	290	284	293	7 809	308	3.94	256	3.28

TOP DISPOSAL REASONS



LIVE CATTLE MOVEMENT



NEW-BRUNSWICK PUBLISHABLE HERDS

	Herd Owner / Address	Records Started	Publishable Records	Avg BCA	BCA M	BCA F	BCA P	M kg	F kg	P kg	Breed	Herd#
1	**Lawrence'S Dairy Farm Ltd** 216 Mc Lean Settlement Rd., Burtts Corner, E6L 2W1	169	134	283.3	281	295	274	12679	494	395	HO	97554
2	**Schenkels Farms Inc.** Route 992 Hwy 425, Whitney, E1V 4K4	190	137	254.0	248	275	239	11092	457	340	HO	97375
3	**Bonnielm Farm Ltd** 2979 Rt 470, Ford Bank, E4W 3R5	85	61	253.3	245	255	260	11134	428	376	HO	97576
4	**Waldow Farms Ltd** 3084 Route 890, Cornhill, E4Z 1M5	331	216	252.0	254	259	243	11301	427	344	HO	97208
5	**Ravenwood Holsteins Ltd** 753 Scotch Settlement Rd., Irishtown, E1H 1Y5	75	61	248.7	252	239	255	11713	411	377	HO	97509
6	**Tobique Holsteins** 2653 Route 390, St Almo, E7G 3R5	79	63	247.3	248	245	249	11143	409	355	HO	97649
7	**Prime Valley Holsteins** 3441 Route 121, Apohaqui, E5P 1B2	144	110	245.3	250	242	244	11368	407	352	HO	97206
8	**Lonsview Farms Ltd** 6762 Route 111, New Line, E4E 4S6	150	112	245.3	238	253	245	10689	423	350	HO	97611
9	**Presstein Holsteins** 333 Main Street, Sackville, E4L 3H2	130	92	243.0	236	255	238	10773	431	346	HO	97295
10	**Walkerville Farms** 25 Bald Hill Road, Wards Creek, E4E 4M3	305	219	242.0	244	253	229	11110	427	330	HO	97516
11	**Doubleoord Farm** 1450 Route 615, Springfield, E6E 1T9	63	46	240.3	238	249	234	10750	416	335	HO	97679
12	**Roy Chambers** 241 Waterford Road, Dutch Valley, E4E 3N4	41	30	239.0	232	244	241	10571	415	350	HO	97159
13	**Hazelhill Farms** Po Box 5068, Sussex, E4E 5L2	281	224	234.0	241	234	227	11103	401	333	HO	97548
14	**Clarke Farms** 6052 Route 112, New Canaan, E4Z 6A6	79	60	231.7	236	233	226	11024	404	336	HO	97671
15	**Leighside Farms Ltd** 3662 Route 132, Scoudouc, E4P 3M8	109	91	231.0	226	240	227	10603	415	337	HO	97233
16	**Ferme Cyrror** 29 Ch. Siegas #1, Siegas, E7E 1T5	51	30	229.0	244	211	232	7413	348	267	JE	97664
17	**Northtay Farms Ltd** 444 North Tay Road, North Tay, E6B 1R5	145	118	228.7	220	231	235	10110	393	343	HO	97328
18	**Christie Farms Ltd** 30 Christy Rd., Lynnfield, E5A 1V9	43	28	226.3	225	230	224	10695	404	338	HO	97580
19	**Langelaans Holsteins Ltd** 3754 Route 112, Second North River, E4J 3X5	107	79	224.7	218	230	226	9831	386	326	HO	97505
20	**Branchview Farms Ltd** 450 Little Branch Road, Black River Bridge, E1N 5N3	94	75	224.3	223	234	216	10229	398	315	HO	97451
21	**Salisdairy Farm** 2800 Route 106, Boundary Creek, E1G 4N1	157	126	224.0	218	232	222	10050	397	326	HO	97292
22	**Clearland Holsteins** 317 O'Neill Road, Searsville, E5P 3G1	72	57	223.0	222	228	219	10515	399	327	HO	97553
23	**Dairy Sweet Holsteins Ltd** 529 Scott Road, River Glade, E4Z 3P3	233	173	223.0	224	230	215	10255	391	312	HO	97286
24	**Wesselius Holstein Farms Ltd** 850 Wheaton Settlement Rd., Wheaton Settlement, E4Z 3Y2	356	252	222.7	224	229	215	10089	383	308	HO	97200
25	**Ferme Oscar Daigle Fils Ltd** 3369 Rue Principale, Baker Brook, E7A 1Z6	160	128	221.7	222	223	220	10052	376	317	HO	97357

NOVA-SCOTIA
PUBLISHABLE HERDS

	Herd Owner / Address	Records Started	Publishable Records	Avg BCA	BCA M	BCA F	BCA P	M kg	F kg	P kg	Breed	Herd#
1	**Sunny Point Farms Ltd** 398 Point Road - East Noel, Hants County, B0N 1J0	290	242	290.0	285	303	282	13070	516	411	HO	98206
2	**Macgregor Dairy Farm Ltd** R R #1, Eureka, B0K 1B0	379	273	277.7	283	274	276	12814	461	399	HO	98073
3	**Roman Valley Holsteins** Box 29, St. Andrews, B0H 1X0	48	40	270.0	265	273	272	12301	471	401	HO	98285
4	**Bekkers Farm Incorporated** R.R. # 4, Antigonish, B2G 2L2	137	97	258.3	258	265	252	11864	454	369	HO	98694
5	**Pine Haven Farms Ltd** Cumberland Co., Oxford, B0M 1P0	67	47	256.3	259	253	257	7819	413	293	JE	98611
6	**Musqie Valley Farms** R R # 5, Middle Musquodoboit, B0N 1X0	15	14	256.0	256	257	255	7734	418	291	JE	98719
7	**Lindenright Holsteins** R R #2, Antigonish, B2G 2K9	97	77	252.0	245	266	245	10833	437	345	HO	98741
8	**Curry Knoll Farms Limited** 124 Wharf Rd, Wolfville, B4P 2R3	68	47	250.7	238	274	240	10568	450	339	HO	98187
9	**Bayview Dairy Farm Ltd** P.O. Box 168, Mabou, B0E 1X0	82	64	248.0	248	237	259	11273	400	375	HO	98647
10	**Lone Willow Farm** 2377 Clarence Road, Bridgetown, B0S 1C0	62	46	246.0	244	251	243	10903	419	348	HO	98017
11	**Scothorn Farms Ltd** 8727 Hwy. 14, Hardwood Lands, B0N 1Y0	431	355	244.7	233	273	228	10203	444	318	HO	98752
12	**Cornwallis Farms Ltd** 1258 Belcher Street, Port Williams, B0P 1T0	95	71	242.3	240	255	232	11028	435	340	HO	98728
13	**Sandy Desert Farm Limited** 284 Macdonald Road, R.R.#1, Hardwood Lands, B0N 1Y0	147	120	242.3	240	252	235	10607	414	331	HO	98709
14	**Black Avon Farms Ltd** 2362 Guysborough Road, Heatherton, B0H 1R0	86	68	241.7	237	250	238	10886	425	348	HO	98693
15	**Phinneyval Farms** R.R.#4, 10079 Highway #1, Bridgetown, B0S 1C0	17	11	239.7	231	248	240	7839	347	268	AY	98820
16	**Harbourside Farms** R.R.# 4, Antigonish, B2G 2L2	80	55	239.3	233	238	247	10551	401	356	HO	98772
17	**Kingsmeadow** 5239 Chester Road, Windsor, B0N 2T0	45	39	237.7	228	257	228	10268	430	326	HO	98729
18	**Biggs Farms Ltd** 229 Biggs Road, Wolfville, B4P 2R1	124	91	236.0	239	243	226	10141	383	307	HO	98738
19	**Bishop Farms Ltd** 553 Marsh Rd, Annapolis Royal, B0S 1A0	152	127	235.7	224	262	221	10334	450	324	HO	98126
20	**West River Holsteins** R.R.#4, Antigonish, B2G 2L2	134	104	235.7	225	255	227	10408	437	333	HO	98999
21	**Kipawo Holsteins 2011 Limited** P.O. Box 92, Grand Pre, B0P 1M0	68	43	234.3	227	248	228	10658	432	340	HO	98041
22	**Pineriver Farms Ltd** R.R.# 2, Inverness County, B0E 1X0	66	50	234.0	238	228	236	11266	399	355	HO	98698
23	**Betula Farms** 516 North Salam Road, North Salem, B0N 2H0	44	36	233.7	228	239	234	10518	411	344	HO	98019
24	**A & J Bent Farms Ltd** R.R.#3, Lawrencetown, B0S 1M0	135	99	232.7	227	247	224	10427	420	327	HO	98195
25	**Springauff Farm** 1720 Rte 332, Lunenburg, B0J 2C0	41	33	232.0	236	226	234	11320	401	355	HO	98198

PRINCE-EDWARD-ISLAND PUBLISHABLE HERDS

	Herd Owner / Address	Records Started	Publishable Records	Avg BCA	BCA M	BCA F	BCA P	M kg	F kg	P kg	Breed	Herd#
1	**Oceanbrae Farms** R R #1, 1061 Belmont Road, Miscouche, C0B 1T0	54	35	289.0	290	284	293	7809	308	256	MS	99513
2	**Pondsedge Holsteins** Little Pond, Souris, C0A 2B0	228	165	262.7	270	272	246	11933	447	347	HO	99092
3	**Howardvale Holsteins** Veterans Hwy 22537, Breadalbane, C0A 1E0	157	122	258.7	257	267	252	11559	445	361	HO	99490
4	**Macbeath Farms Ltd** 26 Goldenflo Way, Marshfield, C1C 0H4	125	94	252.7	251	259	248	11600	444	363	HO	99577
5	**Winterbay Farm Inc.** Bedford, Mt. Stewart, C0A 1T0	107	82	242.3	237	255	235	11121	443	350	HO	99100
6	**Cassialane Holsteins Ltd** R R 2, Freetown, C0B 1L0	93	50	241.3	237	264	223	10799	447	323	HO	99547
7	**Blue Diamond Farm** R R #1, Kinkora, C0B 1N0	92	74	239.0	241	245	231	10993	414	334	HO	99667
8	**Idee Holsteins** 5511 Rte 6, South Rustico, Hunter River, C0A 1N0	54	34	238.7	228	259	229	10307	433	329	HO	99570
9	**Jewell Dale Farm Inc.** 298 Route 19, Meadowbank, C0A 1H1	109	80	237.7	236	253	224	10944	435	329	HO	99393
10	**Ayr Bay Farms** Greenwich Rd., St. Peters Bay, C0A 2A0	35	28	237.7	235	243	235	8635	366	285	AY	99017
11	**Forever Schoon Farms** 184 Monaghan Road, Vernon, C0A 2E0	85	55	237.3	226	239	247	7930	345	285	AY	99552
12	**Abelaine Farms Inc** 309 Rte.258, New Glasgow, Hunter River, C0A 1N0	36	27	237.3	231	245	236	10468	413	340	HO	99523
13	**John Dennis** 160 Green Park Road, Tyne Valley, C0B 2C0	52	44	236.7	243	219	248	10678	357	347	HO	99214
14	**Nordale Farm** 691 Sunnyside Rd, Route 131, Richmond, C0B 1Y0	94	73	236.0	229	238	241	10612	408	355	HO	99366
15	**Reeves Farm Inc.** R R 1, Freetown, C0B 1L0	90	63	236.0	226	259	223	10292	439	324	HO	99652
16	**Red Oak Farm** 1463, Oyster Bed Bridge, C1E 0X8	61	47	235.3	237	241	228	10646	401	326	HO	99540
17	**Brackley Farm** 819 Brackley Point Road,Rte 15, Brackley, C1A 1H4	59	41	234.3	231	241	231	10534	406	333	HO	99509
18	**Royalwater Holsteins** Pisquid, Mt. Stewart, C0A 1T0	159	127	232.0	225	252	219	11226	467	346	HO	99094
19	**Lexis Holsteins** 18 Rosewood Drive, Kensington, C0B 1M0	36	30	231.3	229	241	224	9798	383	306	HO	99459
20	**Proville Holsteins** 1070 Burlington Rd., Kensington, C0B 1M0	8	5	230.3	220	250	221	10343	430	330	HO	99690
21	**Birkentree Holsteins** 7033 Rustico Road, Hunter River, C0A 1N0	95	73	230.0	223	246	221	10154	415	319	HO	99035
22	**Ver-Dyk Farms Ltd** 83 Station Rd, Fredericton, Hunter River, C0A 1N0	50	39	230.0	229	240	221	8177	351	260	AY	99554
23	**Star Haven Farm** 830 North Freetown, Kensington, C0B 1L0	8	7	230.0	229	235	226	10306	389	321	HO	99700
24	**Newgreen Farms** R R 1, Breadalbane, C0A 1E0	58	48	228.3	235	219	231	10583	366	330	HO	99491
25	**Frizzells V. Farm Inc.** 632 Junction Road, Hunter River, C0A 1N0	368	277	227.7	230	232	221	10528	393	321	HO	99567

NEWFOUNDLAND
PUBLISHABLE HERDS

	Herd Owner /	Records Started	Publishable Records	Avg BCA	BCA M	BCA F	BCA P	M kg	F kg	P kg	Breed	Herd#
1	**N And N Farm Ltd** 410A Veterans Drive, Cormack,A8A 2R6	210	160	255.0	255	260	250	11612	441	363	HO	99905
2	**Pure Holsteins Limited** P.O. Box 2158, R.R.#1, Corner Brook,A2H 2N2	146	105	235.3	235	240	231	10313	392	323	HO	99984
3	**Larch Grove Farms** 405 Vetrans Drive, Cormack,A8A 2R7	129	80	231.0	227	237	229	10418	404	335	HO	98992
4	**Brophy'S Dairy Farm** P.O. Box 159, Daniel'S Harbour, A0K 2C0	236	24	213.3	206	235	199	9537	405	295	HO	99989
5	**Cornerstone Farm** 14A Veterans Drive, Cormack,A8A 2P8	110	69	196.7	194	201	195	9128	351	292	HO	99903

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