

Monthly
Newsletter
of the
Grey Wooded
Forage Association



Message from the Chair

Amy Leitch

Welcome to the year of 2018. One, where so far, taking a deep ble. I am very excited, almost bubbling about the next breath may create frost icicles in your lungs or the need for ice time the Stockman Grass Farmer brings an event back Crampons on your chore boots. As a famous Super Hero would say to Alberta. It is very true, that no matter what, we can stewards of the land.

finalizing some planning and attending an engaging and exciting 2- succeed in your business. Keep your eyes on the Blade and our day course on "Take this Farm and Love It"! This event had a speak- email updates to many of the Agricultural Business Recharge er I was extremely excited to hear, just like Christmas morning. This Events/Seminars in our Area. may sound a little childish, but when you enjoy something it should There are a few other Agriculture exciters as I would call them, I Farmer Business School. Well, my spark for Agriculture Business exciting everyone who is or wants to start farming. has been fanned into a flame for sure. Those 2 Agricultural exciters The GWFA is brainstorming together some of these exciters to pohave so many take home messages and practical information for all business people. The value of the 2-day seminar filled my notebook and brain folds. I have come back with a flurry of strategic plans for my business and family and how it will encompass my children and be easily transferred to them. Yes, that is right, I left that of 2018 ahead of us, lets all create a carbonating effect for Agriculcourse with a positive experience on Farm Transition. The crowd of ture.

people who were there where from all over three different Provinces. The conversations, connections and shared experiences that were made are invalua-



"onwards and upwards to greater glory", which is a great moto not all use a little recharge in our fields of desire, whether that is Grass, only for the temperature and solar hours but for all producers and Meat, Dirt, Water and so on. This is a coincidental time of year for a recharge, but I encourage all of you to take in a seminar or event For myself, January was a flurry of business. Animals, marketing, in 2018, that will help to give you the boost of desire to continue to

give you a carbonating feeling inside. GRO - Gateway Research would recommend you check them out online or via their publica-Organization and West Central Forage Association, hosted Joel tions, John Suscovich and Justin Rhodes. These are just two of the Salatin and Alberta's own Steve Kenyon for a Stockman Grass many whose passion to farm isn't just about themselves but about

> tentially have an event in the near future. If you have any suggestions as to who you as a producer would like to see, hear or be part of a session with GWFA, please let us know at the office, via phone or email, 403 844 2645 gwfa3@telus.net or gwfa5@telus.net. Best wishes from myself and the GWFA Board members in the year

The Blade is a monthly publication produced by The Grey Wooded Forage Association

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GWFA Mission Statement

To promote environmentally and economically sustainable forage and agricultural practices.

GWFA Vision Statement

The community is engaged in regenerative agricultural production methods.

The Grey Wooded Forage Association is a member of ARECA



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Managers Note

Hey folks,

The Red Bow Agricultural Partnership is a municipal collaboration created with the purpose of sharing resources, information, knowledge and facilitating networking opportunities for the benefit of sustainable agriculture within the rural communities in which they operate. The current partnership consists of M.D. of Bighorn, Clearwater County, Kneehill County, Mountain View County, Red Deer County, Rocky View County and Wheatland County. Since 2007 the committee has hosted two annual events: Ladies Livestock Lessons and Ranching Opportunities.

Ladies Livestock Lessons is a workshop designed specifically for women in the ranching industry. This workshop includes indoor classroom time, outdoor hands-on sessions and lots of socializing and networking. This project is hosted by a subcommittee consisting of M.D. of Bighorn, Kneehill County, Mountain View County, Rocky View County and Wheatland County as well as partners Cows & Fish, Foothills Forage and Grazing Association and Grey Wooded Forage Association.

Over 120 participants attended Ladies Livestock Lessons workshop in Acme on January 20th. It was a day full of presentations, but some of the more notable ones were; Passing The Torch-Succession Planning by Shawna Feth, Canadian Round Table for Sustainable Beef by Fawn Jackson, Bovine Calving Management by Dr. Gord Krebs, and the Calving Clinic by Dr. Gord Krebs, Dr. Lisa Misener, and Chantal DeBeurs. The planning committee brought in Lucy, a full-size calving model along with two table top models, to provide an opportunity for attendees to experience and practise delivering a calf and learn how to use a calf puller and chains. An excellent day! Congrats to the committee for an excellent job done. If anyone is interested in attending a future workshop, please be sure to contact me. We will begin planning for next year soon.

Our fiscal year end is fast approaching, and it is time again for membership renewals. At our AGM last year, a member resolution was passed to increase the membership fee to \$40.00. Our fiscal year is April 1st to March 31st. I have sent a membership renewal reminder via email a few weeks ago. Please ensure your membership fees are up to date; to reduce cost we will not be invoicing. We accept e-transfers to my email address gwfa3@telus.net, checks or cash.

Our AGM date has been set for Friday May 11th at the Dover Court Hall. Please mark your calendars. We are currently in the planning stages and are happy to entertain ideas from our membership. We will start with the business meeting at 5:00pm, supper around 6 and activities to follow.

We need to replace 4 board members this year and

are seeking some help from our membership to identify possible candidates to fill these positions. A write up with be inserted in this publication outlining the roles and responsibilities of the position.

GWFA is also seeking one member to replace one of our annual auditors. Training will be provided by the existing auditors. This position requires a commitment of 3-4 hours once per year and the only requirement is that you are familiar with excel. If you are interested in the position or know of someone who could fill this position be sure to contact us.

There have been some major changes to the Alberta EFP program. Be sure to get familiar with the new renewal period, see our article in this month's publication.

Ginette



Save the Date

May 11, 2018

Annual General Meeting

Dovercourt Hall

Business Meeting 5pm

Supper at 6pm

More Information to Follow

Classified Ad:

I have approximately 150 hay bales for sale weighing about 1150# each. they consist of mainly orchard grass, timothy and brome. I want \$60 a bale, I will load. Please call 403-357-9831 if you're interested.

An 'Annual' Discussion

Devin Knopp, PAg

Recently, I had an interesting discussion with a former colleague/producer friend of mine. He and I talk on a relatively winter annual established and there is ground covfrequent basis about anything and everything from perennial for- er going into winter. That spring there are now ages to annual crops and the four legged and sometimes two leg- plants ready to begin growing well ahead of any weed species and ged creatures that eat them.

ing fall seeded winter annuals for spring stockpiled pasture. This ture the early part of May, three weeks earlier than you would isn't a new concept, it is one that has been around since biennials your perennial pastures. The nice part, because they are a winter were planted for forage. Traditionally, producers would use fall rye annual you have flexibility with what you as a producer would do. or winter triticale as their preferred annual. Graze it in the fall if Grazing the winter annual extremely hard can be an option, as you there was enough top growth, if not, then wait until spring and use may decide to terminate that crop early. You may also wish to init as early stockpiled pasture.

why there was still so much seasonal fallow occurring. In other crop. Wouldn't it be nice to have cows out early and options based words, we plant an annual in May and maybe silage it or take it to upon the spring for the direction you want to take that winter angrain. However, there is a time between harvest and freeze-up nual. Not to mention your not feeding cattle for 3 weeks, or put it where fallow takes place. This period the land is completely unpro- this way you've now added 3 weeks to your grazing season on the ductive. Since the land is unproductive, there begins to be a die off front end. That usually isn't an option. If we get good growing conof soil microflora, especially after aggressive tillage. These microbiditions and a mild fall we can graze longer into the end of the seaal species are essential to the soil in helping breakdown organic son. Grazing early has detrimental effects on our perennial pasmatter into carbon and plant usable nutrients. Without live plants tures and can decreases overall productivity in the long run by as present, many of the beneficial species like mycorrhizal fungi begin much as 60%. to die off because there is no host to perform its half of the symbicussion for another day.

growing conditions for another month and a half. That 45 days cereal crops are very dominant. should be enough to get a winter triticale or fall rye enough time single monocrop.

So, in our theoretical conversation the



already at a point where in a few short weeks of growth they'll be The last conversation we had, we were talking about us- ready for a graze. How nice would it be to turn cows out into pascorporate it into your rotation for grazing or let it go to maturity As we talked about using annuals we both questioned and either take it as green feed, silage, or grain, depending on your

The other part of crop rotation comes in when you termiotic relationship. I'll get off my soapbox there because that's a dis- nate the annual after grazing or by mid June as a greenfeed, you now have enough time to plant another crop. Maybe you go back That led our conversation to the idea of why aren't we in with another annual cereal. However, a true crop rotation using the concept of crop rotation not only from a disease perspec- means you switch species. So, now maybe we look at a forage tive, but from a plant nutrition, animal nutrition, and soil health brassica mix or put it back into perennials. That will change the perspective. Using the crop rotation concept to maintain perma- plant species, affect the microbial species in the soil and change nent cover on ground traditionally used for a single annual crop. our nutrition for our grazing cattle. Planting forage brassicas by This way, we can have multiple different types of crop both used mid June even early July will give ample time for growth and multifor grazing and annual forage production. As an example, we ple grazing before it winter kills. Since these plants regrow at a talked about planting fall rye or winter triticale in around the 15th very rapid rate, they can be taken into the fall and used in your late of August. That would normally correspond with the silaging date fall stockpile graze or used in a swath grazing regime. To think a of a barley crop planted mid to late May. Now, from the 15th of piece of land could be used for two different types of annuals and August, we can begin to see frost especially west of the highway 2 multiple different uses, brings a very different nutritional profile to corridor. However, the odds of the killing frost at that time are still the cattle grazing and the soil microbes below. It also ensures relatively low. The odds are greater we will have relatively decent there is some crop rotation to reduce disease risk in areas where

I didn't mention any costs, though that is something a producer to get up out of the ground and get hardened off before we get must always consider. That is because this is a concept not a hard continuous freezing temperatures, that is if they are planted as a management practice. It also may not be an option for every producer every year depending on how the growing season has gone.

Continued from previous page

Cost is very important to consider, but I look at our discussion as more about a concept, theory, and change away from the norm. As we move around the province the ability for annual species to grow changes, and there is a lot of exciting plant breeding that is making more winter hardy or frost tolerant annual species available every year.

Using more annuals in forage production is something I've thought more about. Land sitting bare is doing nothing toward my bottom line. So, if I can generate more days on pasture, decrease the amount of winter feed I need, and provide solid ground cover to reduce erosion and feed the bugs that we know so very little about. Why not think about it?

Is your annual compensation review coming this year? It is time to start planning.

I can help. Give me a call.





GALLOWAY SALE

Marble & Finish on Grass



Big Deal Corinthean 6C - 2017 Herd Sire Online Bidding Mar. 5 to 8, 2018



7:00 PM March 8, 2018

More live calves - highest calf survival percent & outstandingly low incidence of calving difficulties (0.8%), University of Nebraska Meat Research Center

Sale information posted on:

Website: bigdealgalloways.com

FOR MORE INFORMATION:

Russel Horvey, Delburne, AB. (403)749-2780 or (403)302-8175

Email: horvey@telusplanet.net



For more information, go to www.AlbertaEFP.com or send an email to inquiries@AlbertaEFP.com

To start the EFP process, email us at Register@AlbertaEFP.com Phone: 780-612-9712







Growing Forward 2







Grey Wooded Forage Association

Creating an Awareness of Forages

Box 1448, 5039-45th Street, Rocky Mountain House, AB T4T 1B1 Email: gwfa3@telus.net, Website: www.greywoodedforageassociation.com

February 2nd, 2018

We are currently seeking four new Directors to join our board. This is a volunteer position. The role of the Board is to govern the organization. The Board of Directors is the legal authority for the association. As a member of the Board, a Director acts in a position of trust for the community and is responsible for the effective Governance of the organization. Governance is the act of establishing and monitoring the long-term direction of an organization through policy.

Below is a brief list of benefits and experience that we seek from potential board members

- Advocating for the association is a key role we need in a Director
- A positive attitude towards continued learning
- Enthusiastic supporters of our association
- Willingness to share experiences and grow
- Social interactions and networking with Industry representatives, GWFA members, staff and other board members at our events and meetings.
- Prospective board members who have a broader view of the community and the world are an asset
- Prospective board members are a formal link to the community and to the people that our organization serves.
- Your contribution will impact future generation in agriculture
- Opportunities to attend conferences, approve project, and personal development
- Assist in the development of quality projects and extension activities

For more information on our board positions, a job description, the roles and responsibilities and time commitment please contact us at 403-844-2645.

Amy Leitch, Chair

Bench to Barn: A Glimpse into How New Technology is **Developed and Delivered**

Canada is one of the major international beef producers with over the University of Alberta, Delta 2.7M beef cattle that contribute to the 317.000 tonnes and \$2B of Genomics, was also involved in the sector and the rural economy. When dealing with numbers of this project developed and data were collected. size, even small changes can have a large impact on the economic As the data came in and were analyzed, a couple of items came to significant resources, financial and human, are being directed towards increasing the quality, profitability, and sustainability of the beef sector here in Alberta.

is expected to change the way commercial cow/calf producers stayed in the herd, the more calves she produced, and the more select and manage their herds. Early indicators, including pounds of weaned calves the producer had available for sale each producers, once fully implemented.

The project, a \$4.5M initiative, was originally intended to develop genomic tools to improve feed efficiency (animals that cost less to Validated information such as this can be of immense value to the feed for every kg of weight they accumulate) and carcass traits so in commercial herds due to the much larger variation of genetics as well as the range of feed, management, and climactic But to do this, producers needed a way to determine the genomic environments they are exposed to. The goal of this project was to accumulate the sheer quantity of data and methods of analyzing the data to enable these tools to be more predictive of commercial cattle and allow producers to manage their herds more profitably. In turn, this increased value to commercial producers would drive the adoption of genomics tools, further increasing the competitiveness and sustainability of Canadian beef. The original expectation was that, by building on the large the ability to capitalize on breed complementarity in balancing / national and international genomics databases, the project would improve beef industry profitability by \$214 M over 15 years as the genomics tool, EnVigour HXTM, was born; a genetic tool more productive and efficient cattle were selected. Turns out this was a huge understatement.

In order to accomplish this aggressive objective, an international commercial cattle. team of experts was assembled to address the scientific research aspects of the project with equal representation from the producers and producer organizations that the project was ultimately to benefit. Notable members of the collaboration that Dr. Troy Drake (Cow/Calf Health Management Services), and Jennifer Stewart-Smith (Beefbooster). Additional collaborators included members from the Irish Cattle Breeding Federation, Teagasc (Ireland), and Livestock Gentec at the University of Alberta. The not-for-profit genomics service provider spun out of

exported beef in 2017. Western Canada produces 78% of project - a role that expanded to include the commercialization Canada's beef, making it a critical component of the agricultural (sale) and distribution of an unexpected gem that emerged as the

well-being of producers and our rural communities. That's why the attention of the team. Animals that had a more diverse set of genetics also seemed to have other characteristics, which led investigators to look more closely at the data (the range of animals, their genetics, and their demonstrated on-farm One on-going project between the University of Alberta's performance). From this, patterns began to emerge. It is well Livestock Gentec and Alberta Agriculture and Forestry (AAF) known that the greater the variation in an animal's genetics or researchers at Agriculture and Agri-Food Canada's Lacombe heterozygosity – something that producers have typically referred Research Centre has already delivered a significant new tool that to as "hybrid vigour" - the better her health, the longer she evaluations conducted on ranches within the Grey Wooded year. Here, hybrid vigour was calculated genomically, increasing Forage Association's own geography, point to cost savings and its accuracy and eliminating the errors that can occur even within revenue increases in the area of \$150 per cow per year for disciplined pedigree protocols. New, however, was that these high vigour animals were also shown to, on average, have greater feed efficiency.

commercial cow/calf producer through the ability to manage their (such as weight, yield, and grade) in commercial cattle. These herd and profitability by minimizing costs (replacement heifer and tools are both accurate and valuable in pure breed herds but less feed) while maximizing revenue through increases in pounds of weaned calves available for sale.

> profile of both their herd and animals. This could be accomplished easily through genetic testing. A simple parentage test links a calf back to its sire while an analysis of the same sample can determine the degree of heterozygosity. This in turn can be used to calculate the breed composition of an animal. Genomically calculated breed composition allows producers to maximize hybrid vigour through selective matings while also allowing for developing economically important traits. Thus, the concept of discovered, developed, validated, and launched based on the actual genetics, environment, and performance of Alberta's

In the coming months with the GWFA, Livestock Gentec and Delta Genomics will be providing additional information and updates on the project's other objectives, and on the ways for commercial cow/calf producers to measure and realize the value of EnVigour GWFA members are likely to recognize include Dr. John Basarab HXTM. If curiosity gets the better of you and you don't want to (AAF, Lacombe), Dr. John Crowley (Canadian Beef Breeds Council), wait for the next installment, contact Delta Genomics or Livestock Gentec at any time for more information on how EnVigour HXTM might help you achieve your herd-vision.

> You can contact us at envigourhx@deltagenomics.com or Michelle at (780) 492-2538.

Clearing Confusion In Perennial Crop Insurance Products

Mustafa Eric, AFSC Communications Coordinator

Perennial crop producers will have simplified coverage options the full season is higher than the combined without any potential loss of benefits when they insure their crops split season payments, the client will receive with Agriculture Financial Services Corporation (AFSC) from the the extra amount at the end of the season. beginning of 2018.

Under the program changes, both coverage and price options the number of coverage options in this provast majority of our clients have been selecting the options that ed weather stations with the long term normal in that area. have been kept in the program."

price options, in addition to the possible choice of up to three perennial insurance policies in 2018. weather stations, were responsible for the complexity around the perennial insurance products. With the multiplicity of choices brought down to a rational few and any potential loss of benefits compared to the previous version ruled out, the hope is that clients will find it easier to renew their policies for perennial crops in 2018 with the new format of the insurance product. "AFSC understands the need to explain these changes to our clients and we will reach out to perennial insurance holders to provide them with information to help them make their choices on the new options," said Nancy Smith, Insurance Product Coordinator at AFSC.

What is new?

In Hay Insurance, Moisture Deficiency Insurance and Satellite Yield Insurance programs, the list of crops covered for insurance remains the same, but producers will have two Spring Price options to select from instead of four.

In Moisture Deficiency Insurance (MDI) program, all eight Full Season coverage options, including four with Spring Soil Moisture (SSM) component, are being dropped. Of the eight Split Season coverage options in 2017 program, four are left in 2018 program, all of them also dissociated from SSM.

However, the way payments are calculated for indemnities for claimants is not being changed; therefore, a client will be able to receive the greater amount of the Split Season or Full Season options as if the latter were still operational. The split season options that remain electable in the program may generate payments that are more than full season options, but they will never pay less. For example, when a client who has selected split season option becomes eligible for payment due to measured precipitation, calculations are made for each split season separately and added together for a total payment. However, despite the option having been dropped, a calculation will also be made using the corresponding weighting option for the full season indemnity. If the payment for

As for Moisture Deficiency Endorsement,

are being reduced in number, removing the complexity and making gram has also been reduced from eight to four, with all four rethe selection of options less confusing. "The options that have maining also disconnected from the SSM. As a result, SSM values been dropped off the program were the least utilized choices," are to be excluded from calculations, which will now be based solesaid Ken Handford, Product Development Analyst at AFSC. "The ly on the comparison of accumulated precipitation levels at select-

Staff at AFSC branch offices will be ready to discuss these and Handford believes the high number of available coverage and other details of the changes with clients who will be renewing their



Do You Have A Project?

development, involving design, prototype modification, and/or repair? Maybe you have an idea but don't have the skill-set, tools or time to turn it into reality. Is it a machine needing modifications, overhaul and repair or a wood project like a tool shed, feed bunks, etc?

I Can Help.

I am a semi-retired welder, farrier, blacksmith, carpenter, mechanic and farmer with a well equipped heated shop located 10 miles West of Olds. I enjoy custom designing, prototyping and fabrication. I am good at knowing what will work, problem solving, modifying and repairing things that don't work. I pay attention to quality and detail.

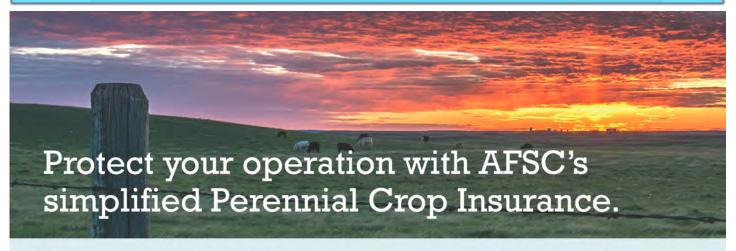
I don't have a personal project on the go this winter so I need someone to help me get my shop "fix".

Sandy Loree

GWFA & FFGA member Phone: 403 586 1949 Email: tloree@telusplanet.net

2018/2019 Membership are Due By: March 31, 2018

- At our 2017 AGM a member resolution was passed to increase the membership fee to \$40.
- Please note \$40 will cover the cost of mailing a paper copy of the Blade.
- Please see the updated membership form on the back page for member benefits and to fill out your membership renewal.
- GWFA accepts cash, cheque, and e-transfer. E-transfers can be sent to gwfa3@telus.net.



Perennial Crop Insurance programs provide a production guarantee for hay crops based on average historical yields and the coverage option selected. AFSC also provides area based coverage for pasture, based upon an indicator of production loss, such as precipitation or satellite imagery to estimate pasture growth.

Learn more by contacting an Insurance Specialist at one of AFSC's branch offices today.

www.AFSC.ca • 1.877.899.AFSC (2372) • • @AFSC_AB











Winter Feeding of Bulls

Winter is the time to properly condition bulls for the coming spring and summer breeding season. Proper conditioning of bulls is important because bull fertility has a major impact in determining whether a cow will conceive and calve early or late in the calving season and thus influence calf weaning weight and uniformity. In addition, because of the high (1:25 to 1:50) bull:cow ratio used for natural service, the fertility of the herd bull is much more important than in any individual cow. Indeed, for the beef breeder, fertility of the bull is 5 and 10 times more important than growth performance and product quality, respectively.

Nutrition is the main factor, which influences "proper conditioning" of bulls and thus their fertility. How can we manage bulls so that they do not have impaired sex drive (libido) due to being either too fat or too thin? The target of the feeding program in winter is to allow the bulls to reach a moderate body condition score of 3 to 3.5 at breeding time (see <u>Table 1</u>).

Once the bull has passed the breeding evaluation, the feeding program to attain a body condition score of 3 to 3.5 involves knowing the rate of gain the bulls should achieve in order to achieve the desired mature weight. Table 2 details target weights and daily gains necessary for growing bulls to achieve their full breeding potential.

Diet recommendations for 500 to 1200 pound growing bulls and not finishing are designed to result in a growth rate of 3.0 to 3.5 lbs per day. The following are targets to aim for when balancing rations for growing bulls:

Dry matter (DM) intake – 2.7% of bodyweight at 500 lbs; 2.5 % of body weight at 1200 lb.

Energy – % Total Digestible Nutrients (TDN) – 67.5% to 68.5% (DM basis).

Crude Protein – 13.5 % to 14 % (DM basis).

Calcium - 0.55% (DM basis)

Phosphorous – 0.40% (DM basis).

Calcium to Phosphorous ratio – within the range of 2:1 and 7:1

Ensure that all trace minerals are adequate and vitamins A D & E are adequate.

Use a good quality alfalfa-grass hay or cereal silage and coarse ground or rolled barley or whole oats for feeding growing bulls. A protein supplement may be required or 2 to 3 lbs of feed peas, or lentils may be used to supplement protein. Feed an ionophore such as Rumensin® in order to improve feed efficiency and to reduce the potential of bloat occurring. Feeding the grain/supplement mixture in two equal portions each day is another practice that producers can use to reduce

the risk of bloat. The above growing ration recommendations should provide an excellent opportunity for development of the frame and muscle of growing bulls without fattening them.

Adequate nutrition is equally important for young bulls after the breeding season for continued growth development and lifetime breeding potential. After the breeding season the growth rate should be about 2 lbs per day depending on the condition of the bull. Winter feeding of bulls that are 2 or more years old at breeding should be geared to reach the optimum breeding condition when they are put with the cows. If you calve in January-February, supplementary winter feeding of thin bulls (score of 2 or less) for gains as in Table 2 may be necessary. On the other hand, if breeding to calve in April-May, it may be possible to winter feed the same bulls at nearer a maintenance level and depend on spring grass to bring up the condition by breeding time. Judgement on the exact level of winter feeding needed depends on the condition of the bull as he goes into the winter. Thus, if he is in moderate condition (score of 3 or more), you should feed for lower winter gains aimed to hold his condition so that he will not become too fat by breeding time.

There is no advantage to shoot for high rates of gain in growing bulls by feeding large amounts of grain. Do not coerce growing bulls to attain their maximum mature weight by overfeeding. Indeed, bulls that attain a moderate body condition score at the target weight for age for their breed have fewer breeding problems than bulls that have been overfed and thus are too fat for their weight.

Table 1. The Condition Scoring System

Score The individual short ribs are fairly sharp to the touch and there is no fat around the tail

1: head. The hip bones, tail head and ribs are visually prominent.

Score The short ribs can be identified individually when touched but feel rounded rather than sharp. There is some tissue cover around the tail head and over the hip bones and the flank. Individual ribs are no longer obvious.

Score The short ribs can only be felt with firm pressure. The areas on either side of the tail head now have a degree of fat cover, which can be easily felt.

Score Fat cover around the tail head is evident as slight "rounds" that are soft to the touch.

4: The short ribs cannot be felt even with firm pressure, and folds of fat are beginning to develop over the ribs and thighs of the animal.

Score The bone structure is no longer noticeable and the animal has a "blocky" appearance.

5: The tail head and hip bones are almost completely buried in fat and folds of fat are apparent over the ribs and thighs. The short ribs are completely covered by fat and the animal's mobility is impaired by the large amounts of fat.

Table 2. Target Weights and Daily Gains for Growing Bulls

		Target weights (lb)			Minimum daily gain (lb)	
\ r	lature bull Weight in noderate	Weaning at 200 days of Age ¹	14 mos. For Breeding ²	At 24 mos. Of Age ³	Weaning To Breeding	Yearling To 24 Month
Co	ndition (lb)	•	•	•		
	1760	595	1100	1650	3.0	1.8
	1980	615	1166	1760	3.0	2.0
	2200	640	1232	1892	3.0-3.5	2.2
	2420	630	1298	2024	3.5	2.4
	2640	685	1364	2156	3.5	2.6

- *1 Estimated as 26 to 34% of mature bull weight
- *2 Estimated as 52 to 62% of mature bull weight
- *3 Estimated as 82 to 94% of mature bull weight

References: Animal Production in Canada, 1993.
Alberta Agriculture Beef Herd Reference Binder and Study Guide – 317, 1987
CowBytes© Ration Balancing program Help Notes on Feeding growing bulls by B. Doig, copyrighted 1999.





Alberta EFP is Instituting a Renewal Period

Effective April 1, 2018, producers will need to have an EFP completion letter dated within the last **10 years** to be considered current and eligible for cost-share funding with the Environmental Sustainability and Climate Change programs of the Canadian Agriculture Partnership (CAP). That means, for example, if you apply in September 1, 2018, your EFP will need to have been approved on or after September 1, 2008 to be considered for current funding.

I'm sure the first question you'll ask after reading the title is "Why?". There has been a movement to harmonize EFPs nationally to make EFPs more useful to sustainable sourcing programs, and Alberta is the only province without a renewal period; therefore, we are doing it to make EFPs useful to sustainable sourcing programs across Canada.

I'm sure the next question is "How often?". The Alberta EFP program has a Stakeholder Advisory Committee (an industry advisory group) that set the renewal period at 10 years. We are waiting to see if the renewal period becomes part of the harmonized national standard. If it does, we anticipate we will need to move the renewal period to 5 years or less in the future.

What does this mean for producers?

If you want to apply for Growing Forward/CAP grants, you will need a current EFP.

If a sustainable sourcing program requires it (e.g. the potato sustainability initiative), you will need a current EFP

If your completion letter is older than 10 years, you will need to do a new workbook and action plan.

If you cannot find your completion letter, you will need to start and complete a new EFP to be considered current, regardless of the completion date; unless your EFP is online.

Technicians cannot give out completion letters without doing a full review of a new EFP (both workbook and action plan).

Producers should use the online workbook! ~ Why?

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If available, you should use your original binder as a reference for your EFP renewal. Producers who have done this have told us putting the paper version online takes a few hours

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How do I Renew? You can register to be assigned a technician in your area by following this link: http://www.albertaefp.com/start-an-efp









Strategic Use of Vitamin A and E During a Shortage

Barry Yaremcio Beef/Forage Specialist, AB Ag Info Center, Stettler

On October 31, 2017 a fire occurred at the BASF factory in Germa- bulls during breeding season, stage of lactation, ny. This plant produces nearly half of the global feed grade vitamin etc.) Requirements vary with use and deficiency A and some of the vitamin E precursors in the world. The fire has risk (i.e. needing to release enough vitamin A contributed to an already tight supply of these two vitamins which and E in milk to meet nursing calf requirements. impacts vitamin supplies available to feed companies.

Many major feed companies will be examining their inventory of vitamins available for use as a result of the global shortage. To stretch supplies some companies are reducing vitamin fortification levels in feed supplements. Bulk sale of powdered or crumbled and injectable vitamin A and D will be reduced or temporarily discontinued until supplies return to normal by mid-2018. The reduced vitamin levels meet regulations set out by the Canadian Feed Inspection Agency (Schedule 4).

There are certain times in the year when vitamin supplementation is required. During the summer, actively growing plants in hayland and pasture have high levels of Vitamins A and E precursors. These naturally occurring precursors convert to their active form and available form to the animal. The amount of vitamin supplied from the growing plants is more than adequate to meet requirements. When forages are cut for hay or grazed after plants have gone dormant, the vitamin precursors oxidize and the potency or availability of the vitamins decline over time. When hay is cut or the forages are dormant for six months, a majority of the vitamin precursors have lost their activity and do not supply adequate amounts of vitamins to meet animal needs. Two year old hay cannot be expected to have any vitamin precursors remaining. The ensiling process for either bagged or chopped silage destroys the vitamin precursors in the forage and should be considered to supply minimal amounts to the ration. It is when these preserved and stored feeds are being used that supplemental Vitamin A, D, and E should be added to diets to avoid deficiency disease symptoms. Effects of tions. In addition; no supplemental vitamins have been provided not feeding vitamins will be discussed later in this article.

Vitamin A can be stored in the liver for use over a 3 to 4 month period. Vitamin E is only for 2- 4 weeks. Therefore it will take a shorter period of time for the animal to become Vitamin E deficient. It is best to supply vitamins as required on a regular basis. Injectable vitamins have a high availability for the first week or two after injection but levels quickly drop in the body and even though some level of vitamins are available for the period indicated on the label, may not be sufficient to meet requirements after the initial tered for use in Canada.

compared to an animal in good condition. Vitamins are stored primarily in the liver, but some is stored in body fat. Therefore, a thin animal has less storage capacity. This may result in an animal becoming deficient sooner.

Size and age of the animal and production (i.e. stage of pregnancy,

Variable weather patterns last (precipitation – either a lack of or excess, temperature, and sunlight intensity) may have had an impact on the formation and storage life of precursor in forages and hay. Any stress factor that reduces the plant efficiency could reduce precursor formation. These levels could also be reduced due to late cutting or other harvest problems.

Vitamin E is transferred to the colostrum 4 to 8 weeks prior to calving and is only transferred to the calf by colostrum. Therefore, females in late pregnancy require higher levels of vitamins A and E approximately eight weeks before calving and for the first 3 to 4 months of lactation or until calves are eating significant amounts of growing forage. Vitamin E has less storage capacity in the animal. It can be expected that deficiency symptoms or reduce performance can be expected sooner with Vitamin E than Vitamin A.

If vitamin supplies are deficient or is suspected to be deficient, it is recommended to start vitamin feeding programs as soon as possible. Supplementation should continue until animals are turned out onto green grass. Vitamin requirements are higher for breeding cattle to maintain milk levels for calves and avoid reproductive fail-

High risk animals are those that grazed dry or dormant grass since last July and have received a silage based or straw-grain ration after coming off pasture as well as animals on hay or greenfeed harvested last summer and produced under the same stress condito date; calving is to start within a few weeks and breeding season starts well before the animals are turned onto fresh grass. Under these conditions, body stores of vitamins have been depleted.

It is possible for calves to be born dead. Calves born alive are likely to have greater health risks such as white muscle disease or higher rates of infectious diseases such as scours or pneumonia as a result of poor immunity. A lack of vitamins will persist until calves start consuming substantial fresh forage (3-4 months of age). Cows are at risk of poor conception rates due to reduced fertility for either peak has passed. There is no injectable Vitamin E product regis- cows or bulls at the start of the breeding season prior to turnout on fresh grass.

A thin animal has less body fat as a percentage of body weight Medium risk animals are those that grazed forages that went dormant in September and have received medium to marginal quality forage after coming off pasture. Animals on swath grazing or grazing corn for the majority of the winter are in the same situation. Animals may have some reserves to draw on. Vitamin supplementation should start a minimum of 4 to 8 weeks prior to calving. Calving starts 4 to 6 weeks prior to turnout on grass and breeding

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season starts one month after turnout to grass.

Low risk animals are those that have been fed appropriate amounts of vitamins since fall and are in good body condition. As an example: backgrounding steers in good condition that had been receiving adequate levels of vitamins in the diet or supplement and have been well vaccinated and will be returning to spring pasture. Non-breeding animals have lower requirements than breeding animals.

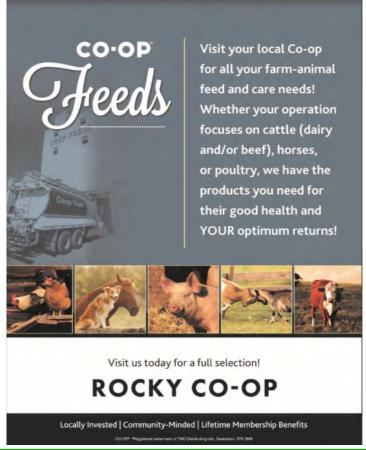
In the short term vitamin deficiencies in individual animals over the next 3-6 months may not be noticeable, especially for herds that have been provided vitamins and minerals as part of a balanced diet to date. These herds are unlikely to experience effects of a Vitamin A deficiency and may be at some risk of a Vitamin E deficiency due a more rapid metabolism and shorter storage duration in body tissues. Herds that start calving in March or April may experience more problems because the vitamin content in the mineral products have been reduced because of the shortage.

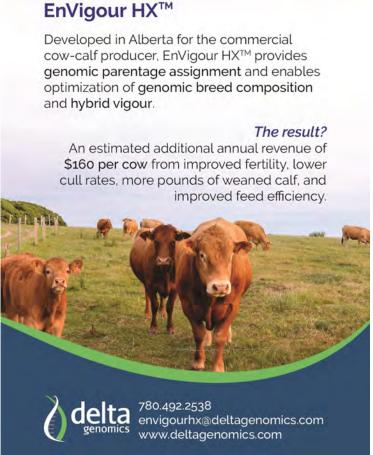
Vitamin deficiencies may result in small changes in performance over the short run. Lower milk production, reduced average daily gain and a slight increase in open cow rates which are difficult to notice. If deficiencies continue, the losses in performance and in livestock deaths become more severe. It is possible to have a serious problem if body vitamin stores are depleted and the situation is not corrected. Even though products have increased in price, it is prudent to continue feeding vitamins.

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What We Like to do When Winter Comes...

Lloyd Quantz, Greenedge Precision Fencing

Best part about a wintertime Ag conference and tradeshow is that at every opportunity along the fenceline. we get to stay warm and talk about cows, grass, soil, fences, water This gives a solid long-term base structure 3 and how to make it all work together next year! We had the op- which can then be divided into tempoportunity to do this at the December 2017 Western Canada Soil rary, internal grazing paddocks summer grazing-solar energy-soil life triangle made a huge difference in soil neighbors as well. biology, plant health, animal productivity and long-term sustainagenerative soil management for decades using cover-crops and managed-interval grazing showed how organic matter in their soils had doubled, tripled or more and how purchased input expenses were nearly zero and moisture absorption was improved dramatically. This sounds almost idealistic and several speakers cautioned where you're starting from.

him in 2007 at Bismark and made note that he was either the wildest guy on wheels or (hopefully) he was the direction of the future. Turns out his regenerative farming practices have yielded good high soil-carbon absorption in grazing and cover-crop systems. His key is to time the grazing to match the optimal leaf, solarfocus is on maintaining soil health through continuously ensuring gathering ability. This means leaving (think leaf-ing!) the plants living plants can capture the sun's energy to enable carbs to reach with enough leaf area to maximize solar insolation (absorption) soil micro-flora and fauna, so they sustain their work. This results but not allowing the plants to mature to their geneticallyin a vibrant and productive soil food-web that provides the nutri- programed, dormancy stage. This means adjusting the grazing ents and moisture gathering system for the crop on top. His most pressure by season, moisture availability, species of plants and valuable tool is nothing more than a short-handled spade which he heat-units. is continually using to dig into pastures and fields to see how well his favorite soil tillers are doing - earthworm heaven would de- must. Too many of our fields and pastures are hard, compacted scribe his place. Turns out that earthworms know best how to cre- areas where little root and soil respiration and growth activity is ate and benefit from the enhanced soil life and organic matter taking place. Water, air, plant roots and soil micro-organisms canleading to huge increases in moisture retention.

talked 'shop' – and how to build the better "mousetrap" to handle extended rest periods. Over the millennia this foraging/grazing the many new challenges in livestock grazing management. Fenc- pattern proved very productive and is directly proportional to the ing, as expected, was a big topic for visitors to our Greenedge Sun's energy absorption by adolescent plant leaves and carbon Some preferred using a single hot wire everywhere and claimed to solar energy projects in the universe so far as we know. have cows trained to respect these. Others had old barbed fences in a better "mousetrap".

The Greenedge Precision Fencing recommended starting ing each a Happy, Productive New Year. point is a good 3-5 multi-wire, hi-tensile perimeter fence with alternating hot and return-ground wires and ample extra grounding



and Grazing conference in Edmonton. Without question producer and winter using flexible poly wire rolls and step in posts. Best of interest in the topics was huge - selling out the available 500 seats all, these perimeter fences are fully legal and effective for all clasweeks before the conference began!! To this packed house, the ses of domestic animals and even serve as deterrent fences for presenters reminded everyone how managing the livestock- larger wild game and notable predators. They help make good

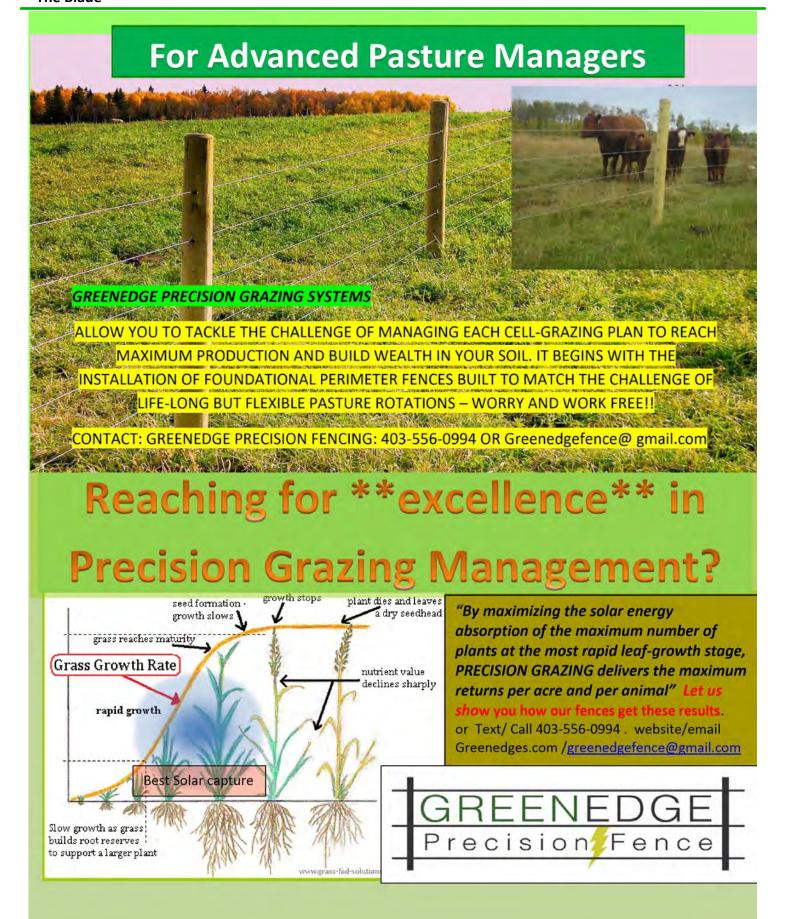
While the "how to" may call for different fencing options bility. Several speakers who had been promoting or practicing re- and opinions, there remains a great deal of confusion over the meaning of 'grazing rotations' and the Why? of grazing management. Some livestock owners claim to be rotating their grazing by leaving the herd on each piece until it is all grazed off and the animals are hungry then moving on to the next piece. Typically these grazing periods were calibrated in weeks not days. STOP THE it takes commitment and time to realize the gains. And, it depends PRESS!! This is not what we are talking about as advanced, beneficial grazing. Call it MIG, AMP, Savory or any derivative, regenera-One keynoter – Gabe Brown from Bismark, North Dakota tive soil management through grazing is a planet away from this has been on this path for a couple decades now. I had first heard abusive forage harvesting model which curtails plant growth if not eventually causing desertification or many acres of unproductive brush intrusion.

Short rotations of grazing with extended forage rest periresults and he is showing many others how to get to a future of ods (a month or longer) can be effective and beneficial. But the

And, for what ails our soils today some of these practices are a not penetrate these pastures. The best of nature's work is evident Other presenters reinforced his ideas with science and in the deep, productive, carbon-rich soils on the prairies - the legapersonal experience. But, in the conference session breaks we all cy of the buffalo which practiced managed interval-grazing with Fencing display. And, the diversity of opinions was very evident. fixing by soil microflora and fauna. Truly one of the most amazing

Moving into an enhanced grazing system requires some to which they offset a single hot, smooth wire then tee'd off with time and commitment but the payoff is generational sustainability polywire for temporary paddock divisions. Many showed interest and productive, carbon-rich soils nourishing high-quality, healthy grazers and better food for all!! 'Til we meet along the trail, Wish-

LQ-1-2018



Grey Wooded Forage Association

2018/2019 Memberships

Memberships are \$40.00 and run from April 1, 2018 to March 31, 2019.

Memberships are open to anyone interested in forage production, grazing management and environmental sustainability.

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What topics are you interested in learning				
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