

NEW YORK **Beef Producer**



NEW YORK BEEF
PRODUCERS' ASSOCIATION

November/December 2020

Volume 36 - No. 6

Official Publication of New York Beef Producers' Association
and New York Junior Beef Producer's Association



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UPCOMING EVENTS

November

November 1 - NYJBPA Scholarship Applications Due

November 14- NYBPA Council Meeting
Holiday Inn, Electronics Pkwy, Syracuse
10:00 AM - 3:00 PM

December

December 1- Newsletter Ads & Articles Due

December 5 - Feeder Calf Sale at FLLE
Canandaigua, NY

December 31- Photo Contest Entries Due



Check out our web site -
www.nybpa.org
Facebook -
www.facebook.com/nybeefproducers

The NEW YORK BEEF PRODUCER

is Published, bimonthly by the
New York Beef Producers' Association.

January/February March/April May/June
July/August Sept/October Nov/December

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Deadline for next issue is December 1st.


This will be firm so newsletter gets out on time.

For more information contact:

Brenda Bippert- cell- 716-870-2777

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Special Announcements and Events

Help Wanted- NYBPA Executive Secretary Position

We are currently excepting applicants. Please send in your letter of intent, including any agricultural background and secretarial experience with your resume to nybeefproducers@aol.com or mail to NYBPA, 290 Four Rod Road, Alden, New York 14004, if you are interested in this part time contracted laborer position. For a complete job description see the posting on the website, www.nybpa.org or call 716-870-2777 for any additional information.

2021 NYBPA Annual Winter Convention is on hold at this time due to Covid-19 Restrictions but we are moving forward with our Annual Photo Contest. Thank you, Kent Nutrition Group, Mackenzie Chauncey and Meagan Stephens, for being our Sponsor again for the Photo Contest.

2021 Photo Contest

We are going forward with our 2021 Photo Contest. The form and photos must be submitted to nybeefproducers@aol.com or mailed to NYBPA, 290 Four Rod Road, Alden, NY 14004 by December 31, 2020.

We are looking for Beef and agricultural related photos. Please no cattle show photos. Grand Prize Photo will be the 2021-2022 NYBPA Directory Cover and 6 runners up no specific order for the Newsletter covers. Please find the Photo Contest form and rules on the web site www.nybpa.org. Thank you again to Kent Nutrition Group for sponsoring this contest.

The Prize breakdown-

Grand Prize - Certificate of 10/Free FW365 ADE or Pasture Breeder Aide or Grass Fed Mineral
And the Cover of the 2021-2022 NYBPA Directory

6 Runner Ups- Gift Certificates for 2/Free FW365 ADE or Pasture Breeder or Grass Fed Mineral
And Cover of 2021 NYBPA The Producer Newsletters

Up Coming Events

Support the NYBPA Feeder Calf Sale at Finger Lakes Livestock Exchange, Canandaigua December 5th
- Vaccine Verification forms available on the web site.

NYBPA Annual Membership Renewals can be done on line thru Pay Pal. Just a reminder that the Directory will be done in 2021 and if you want your information updated you need to fill out the renewal form and send in with your 2021 NYBPA dues by January 31, 2021.

Fall Harvest and Thank You Brenda Bippert



What a great fall we are having, a bit dry but harvest has been great. We are preparing our cow herd for winter with vaccinations and worming. Calves are weaned and preconditioned, looking great and ready for new homes.

With mixed feelings I want to announce our Executive Secretary, Brenda Bippert has decided to retire. Brenda has been the face of the Beef Producer's for over 10 years. Brenda is a special person who has dedicated thousands of hours to our organization and I can't Thank her enough. I would like to ask you all to Thank Brenda.

Brenda and Warren are true promoters of the Beef Industry, and are not going anywhere. We will see plenty of them as their grand children are now showing cattle.

If you or know of someone that can fill this position let us know.

Phil

Cover Photo - Picture From Photo Contest By: Sue Thomas

One snowy weekend while cleaning our barn at our family beef operation, I just happened to time it just right as the sun set on a good but long day as we finished in the barn.

Sue Thomas, Adirondack Beef Company, Croghan, NY.

JUNIOR PRFESIDENT MESSAGE

Hello all,

As of now we are currently discussing the location of our fall festival and spring preview show. We are trying to work together and find a location that is in the best interest for all of the junior members. We are all looking forward to having a hopefully normal show season come next spring.

Also working on a NYJBPA Meeting details will be announced soon.

Hope everyone is doing well and staying safe!

Sincerely,

Cole Carlson

WELCOME 2020/21 NYBPA NEW MEMBERS

8/9- Shawn & Linda Gilliland, Ben Wever Farm,
444 Mountain View Drive, Willsboro, NY 12996
518-963-7447

2- Jeremy Graves, Brown Brooke Farm, 11256
Pope Road, Randolph, NY 14772 716-358-4211

2- Aaron Finch, Hobby Hereford Farm, 4616 Rte.
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5 Surprising Facts About Beef And Sustainability

(BPT) - Beef is a staple in cuisines worldwide, valued for its flavor and nutrition. However, recent conversations about sustainability and the beef industry's commitment to continued improvement have led to research on the issue — which has only served to demonstrate that the beef industry does in fact employ sustainability practices throughout each stage of the production process.

Today's farmers and ranchers supplying beef to the U.S. and around the world have been engaging in more sustainable practices than ever before. Studies conducted in recent years offer a bigger picture of the actual impact of beef production in the U.S., and how it compares to environmental challenges around the world.

Here are five surprising facts about beef production in the U.S. you may not know.

1. Far lower greenhouse gas emissions than other sources

Greenhouse gas emissions from beef cattle only represent 2% of total emissions in the U.S., according to the United States Environmental Protection Agency. By contrast, transportation accounts for 29% of GHG emissions, and electricity accounts for nearly 28% of GHG emissions in the United States. Beef cattle production as a whole, including production of animal feed, is responsible for only 3.7% of greenhouse gas emissions in the U.S.

Sources:

- EPA. 2019. Inventory of U. S. Greenhouse Gas Emissions and Sinks: 1990-2017. U.S. Environmental Protection Agency, Washington, D.C.
- C. Alan Rotz, S. Asem-Hiablíe, S. Place, G. Thoma., 2018. Environmental footprints of beef cattle production in the United States. *Agricultural Systems* Vol. 169, Feb. 2019. doi.org/10.1016/j.agsy.2018.11.005.

2. Lower global carbon footprint

The U.S. is a leader in sustainable beef production, with a carbon footprint 10-50 times lower than in other regions worldwide, despite being the third largest producer of beef globally. The U.S. produces 18% of the world's beef — with only 6% of the world's cattle.

Sources:

- Food and Agricultural Organization of the United Nations. <http://www.fao.org/faostat/en/#home>.
- Herrero M., et al. Biomass use, production, feed efficiencies, and greenhouse gas emissions from global livestock systems. *Proc. Natl. Acad. Sci.* 2013. 110: 20888-20893.

3. Reduced emissions over 30 years

Between 1977 and 2007, the U.S. beef industry has reduced the carbon footprint of beef cattle by more than 16% while producing slightly more beef, thanks to continued improvement in sustainability practices and more effective use of resources.

Sources:

- USDA-NASS Quick Stats Tools. https://www.nass.usda.gov/Quick_Stats/.
- Food and Agricultural Organization of the United Nations. <http://www.fao.org/faostat/en/#home>.

4. Increased carbon storage

Today, U.S. grasslands utilized by the beef industry sequester and store 7.4 Pg carbon — which is the equivalent of taking 5.76 billion cars off the road. By 2050, grasslands are projected to sequester 8.2 Pg carbon, which is equivalent to removing 6.383 billion cars each year (average car emissions of 4.6 CO₂e metric tons per year).

Sources:

- Using EPA's GHG Equivalency Calculator and this study for the carbon stocks estimates: Total grassland carbon stocks in the conterminous U.S., estimated to be about 7.4 petagrams of carbon (Pg C) in 2005, are projected to increase to about 8.2 Pg C by 2050. Pendall, E., D. Bachelet, R.T. Conant, B. El Masri, L.B.

Flanagan, A.K. Knapp, J. Liu, S. Liu and S.M. Schaeffer, 2018: Chapter 10: Grasslands. In *Second State of the Carbon Cycle Report (SOCCR2): A Sustained Assessment Report* [Cavallaro, N., G. Shrestha, R. Birdsey, M.A. Mayes, R.G. Najjar, S.C. Reed, P. Romero-Lankao, and Z. Zhu (eds.)]. U.S. Global Change Research Program, Washington, D.C., pp. 399-427.

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Record Keeping on the Farm

By Dr. Melanie Hemenway, DVM

You can't manage what you don't measure.

Successful farm management begins with accurate and up to date records. The process of record keeping allows the farm to collect and save data so it can be analyzed and used to make better decisions and turn information into actions.

A good record keeping system helps take the guesswork out of management decisions.

The information collected should support you in making management decisions. Although collecting, maintaining and analyzing records takes time, the ability to make decisions based on a known history of your particular farm is valuable. One way to truly assess the impact of management decisions is to have production records pre and post changes. By comparing against your operation's own history, you can identify the key factors that influence profit and concentrate on improving those areas.

Why keep records?

- Evaluate past performance of the operation
- Provide a financial picture of the present situation
- Serve as a planning guide for future decisions
- Participate in quality assurance and premium marketing programs
- Improve on-farm profitability

Benchmarks can be used to compare farms to their past performance, other farms or industry standards to identify strengths and weaknesses in their operation to improve performance. Producers who keep records and use industry benchmarking tend to have higher production.

Setting goals for your operation can help producers plan their road map to get to where they want to go. An important purpose of goal setting is to improve performance as well as financial success and keeping records is a key tool to measure and track goal setting and business success. Goals should be Specific, Measurable, Attainable, Realistic and Time-based (SMART). Then take each goal and break it into smaller chunks to make it easier to handle. For example, maybe you want to achieve greater production by improving weaning weights. There are many options to do this – implement creep feeding; improve grazing management; supplementation of minerals; parasite control; improve water quality, etc. Prioritize and set each task to a timeline.

As with anything in life we should be aware of potential trade-offs which is when you give up one thing in favor of another. Trade-offs may not always be negative, but they can impact your production or management practices. An example would be in order to gain higher calf weaning weights there needs to be increased cow feed for greater cow milk production.

Basic records to keep:

- Weaning weights/sale weight
- Open rate
- Length of calving period
- Number of live/dead calves
- Health treatments and withdrawal times. It is important to record health treatments to prevent possible drug residues and to monitor effectiveness of your treatment regime. Also, recording treatments can allow tracking of seasonal or emerging disease challenges which is helpful to

Continued on page 8



NEW YORK ANGUS ASSOCIATION

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Record Keeping on the Farm

By Dr. Melanie Hemenway, DVM

continued from page 6

create preventive programs to reduce the need of antibiotic use. Whenever drugs are used in food animals it is required to record the information and maintain these records for 2 years.

More advanced records may include:

- Mature cow weights
- Body condition scores
- Calving distribution
- Cow-to-bull ratio
- Calculating pounds of beef produced per cow exposed.

It can seem daunting to collect and save information. However, having accurate information over time is useful to see trends and impending issues. Informed decisions can be made which can be turned into positive actions.





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NYBC Embraces Virtual Events to Promote Beef

Throughout the Summer and Fall NYBC engaged in a variety of virtual events to continuously engage influencers with new beef information. A virtual #BEefTogether Steak Night allowed NYBC to instruct 19 food bloggers on how to prepare the perfect beef steak, and which wine to pair it with, right from the comfort of their own kitchen. Attendees learned beef cookery techniques and information from two chef instructors and one sommelier. Throughout the event attendees shared what they learned with their social media followers through Instagram stories. Following the event attendees developed beef recipes to further promote cooking beef at home. Combined attendees of the event have over 722K Instagram followers. One attendee shared “[This event] reminded me to do fun, different things that I normally wouldn’t do, I’ve never thought to make a compound butter as part of a steak dinner and it was so easy and is so customizable I’ll definitely be doing it again in the future.”



Beef Demystified for Future Dietitians



Dietetic Interns from Syracuse University, D’Youville College, and Sage College had the opportunity to learn about beef production from pasture to plate. Throughout the month of September students attended in-person or virtual farm tours that discussed common questions and misconceptions regarding beef including production practices, animal care, antibiotic use, sustainability, types of beef and the latest beef nutrition research. As a follow-up from the farm tours students were invited to participate in an evening of beef cooking and nutrition led by Nicole Rodriguez, Registered Dietitian Nutritionist, and active leader in the Long Island dietetic community. Nicole led student attendees in preparing their own steak salad at home while highlighting beef nutritional facts and cooking tips. Nicole also shared advice on guiding clients in making good food choices.

Is Your Local School District Familiar with all NYBC Has to Offer?

NYBC, in partnership with New York Ag in the Classroom, offers a robust classroom resources and programs to assist teachers incorporating beef into classroom lessons. NYBC continues to offer grant dollars to classrooms to offset the purchase of beef for their classrooms. The Beef for the Classroom Program is available to all teachers in NY. Students are also encouraged to explore beef cookery and cuts through the Beef for the Classroom grant which is offered to reimburse classrooms up to \$100 for beef purchased and utilized in classroom learning. Grants are still available and can be applied for on the NYBC website under Classroom Resources. NYBC and NYAITC launched the popular Top Cuts Contest in September which allowed groups of students to creatively think about beef and beef marketing while developing an idea for a new beef dish. In its fourth year the contest continues to grow with virtual and recorded learning sessions including farm tours, chef instructed cooking classes, kitchen safety videos and careers in agriculture panel.

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The Impact Of Dressing Percent On Cull Cow Marketing

By : Glenn Selk

October is often the month of calf weaning and cow culling (for spring calving herds). Cull cows represent about 20% of the gross income in commercial cow calf operations. Understanding the major factors impacting cull cow prices is important to the bottom line. Remember cull cows that are destined to go to the packing house are graded by their fleshiness. In the USDA Market News reports cull cows are reported in four grades. The fattest cows are called “Breakers”. Moderately fleshed cows are “Boners” or “boning utility”. Thin cows are called “Leans” or “Lights”, depending upon the weight of the cow. There will be price differences among these four grades.

However, within each grade, large variation in prices per hundredweight will exist because of differences in dressing percentage. Cow buyers are particularly aware of the proportion of the purchased live weight that eventually becomes saleable product hanging on the rail. Dressing percentage is (mathematically) the carcass weight divided by the live weight multiplied by 100.

Key factors that affect dressing percentage include gut fill, udder size, mud and manure on the hide, excess leather on the body, and anything else that contributes to the live weight but will not add to the carcass weight.

Most USDA Market News reports for cull cows will give price ranges for High, Average, and Low Dressing Percentages for each of the previous mentioned grades. As you study these price reports, note that the differences between High and Low Dressing cows and bulls will generally be greater than differences between grades. Many reports will indicate that Low Dressing cows will be discounted \$8 to \$15 per hundredweight compared to High Dressing cows and will be discounted \$5 to \$7 per hundredweight compared to Average Dressing cows. These price differences are usually widest for the thinner cow grades (Leans and Lights). See examples from last week's sale in Oklahoma City National Stockyards: https://www.ams.usda.gov/mnreports/ams_1823.pdf

As producers market cull cows and bulls, they should be cautious about selling cattle with excess fill. The large discounts due to low dressing percent often will more than offset any advantage from the added weight.

5 Surprising Facts About Beef And Sustainability

continued from page 5

- Carbon2018.GlobalChange.gov: <https://doi.org/10.7930/SOCCR2.2018.Ch10>.

5. Plants converted to protein

Cattle not only upcycle, they recycle. Beef cattle generate more protein for the human food supply than would exist without them, because their unique digestive system allows them to convert human-inedible plants into high-quality protein. In the face of growing global population, animals like beef cattle are needed to help make more protein with less.

In addition, approximately 35% of the land in the contiguous U.S. is pasture and range land that is too rocky, steep or arid to support cultivated agriculture, yet this land supports cattle, sheep and goats — leading to protein upcycling.

Sources:

- Council for Agricultural Science and Technology. 1999. Animal Agriculture and Global Food Supply. Task force report N. 135 July 1999, Department of Animal Science, University of California, Davis. <http://agrienvarchive.ca/bioenergy/download/anag.pdf>.
- National Academies of Sciences, Engineering, and Medicine. 2016. Nutrient Requirements of Beef Cattle: Eighth Revised Edition. Washington, D.C.: The National Academies Press. <https://doi.org/10.17226/19014>.

"In the face of a growing global population, we need ruminant animals, like beef cattle, to help make more protein with less, and we've proven in the U.S. that beef can be raised sustainably," said Myriah Johnson, Senior Director of Sustainability Research at the National Cattlemen's Beef Association, a contractor to the Beef Checkoff.

The U.S. industry leads the world in sustainable beef production while serving as a pillar of rural economies and providing a nutrient-rich source of protein for U.S. and worldwide consumers.

Learn more about beef and sustainability at BeefItsWhatsforDinner.com.

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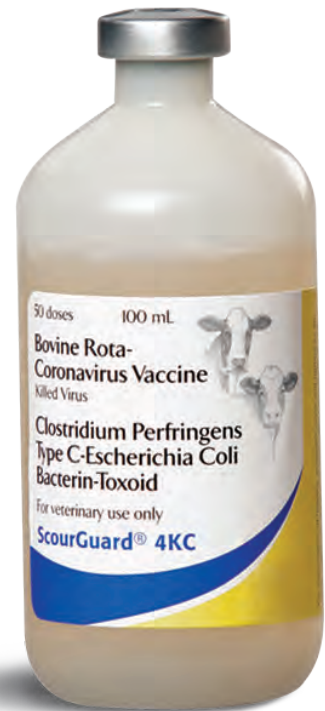
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² Data on file, Study Report No. 3131R-60-03-289, Zoetis LLC.

³ Data on file, Study Report No. 2134H-60-02-002, Zoetis LLC.

⁴ Data on file, Study Report No. 3131R-60-04-361, Zoetis LLC.

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A VIEW FROM THE TRACTOR SEAT By Paul Trowbridge

The view this month is from the back of our farm inspecting our winter grains. The crops have done exceptionally well just amazing what mother nature can do. The crops have a great start on their way to the winter ahead the garlic is also doing great all the little green stems sticking up like little soldiers.

This is my favorite time of the year the trees are really showing their beautiful colors all the farm animals are getting the thicker winter coats and this morning I saw my first flock of Canadian geese heading north.

We all need to be thankful for all of our blessings this summer, great crops, healthy animals and the strength to be able to do this farming life.

I know when it is fall and almost winter all the things we all know about going from summer to fall then winter our bees are busy putting all the male bees out of the hives. The males have no use in the hives in the winter other than eating honey so the females get together smother them and throw them out. In the spring when drones are needed again the queen will lay drone eggs as they need them.

Mother nature is just the most sensible thing I know very little emotion just practical ways to survive millions of years. I really think people that are on a farm or have a farm background have a much better understanding about life and what we can do with our lives to make mother earth a better place to live and a better place for the next generations to come.

Please, everyone, learn all you can about mother nature and help your neighbors understand it to Education I think is all it takes to make this world and our lives better.

Thanx for Readen,

Paul

P.S. BEE SAFE

Knowing the nutritional quality of forage and hay is an integral part of a profitable and efficient livestock operation. Accurate estimation of forage quality starts with obtaining a representative sample of the forage to be fed. Proper sampling technique is critical.

Hay is preserved in a number of different packages ranging from the small square bale weighing 40-50 lb to the large square bale weighing more than 1500 lb. In Kentucky, most hay is packaged in large round bales weighing between 500 and 1500 lb. Wrapped bale silage is also gaining popularity and should be sampled in a similar manner to large round hay bales with the exceptions listed below.

Hay should ALWAYS be sampled in lots. A lot consists of hay made from the same field and cutting. A lot should not represent more than 200 tons of dry matter. In the event that a lot exceeds 200 tons of dry matter, multiple samples should be taken and forage quality results should be averaged to represent the overall lot.

Delay sampling until three to four weeks after baling for hay stored out of the weather. During this period bales undergo the heating or sweating process and forage quality can decline. For hay stored outside, it is best to delay sampling until three to four weeks prior to feeding to account for weathering that occurs after harvest. Remember to allow time for sample shipping and analysis and for making the feeding adjustments needed.

A representative sample will consist of at least 20 cores from 20 bales (one core per bale) resulting in a sample size of approximately one-half pound of hay from each lot. Sample bales at random and not on some predetermined characteristic such as leafiness, color, or weed content.

Use a sampling strategy such as dividing the total number of bales by 20 (number of desired cores) can help to get a representative sample of the hay lot. For example, if a lot consists of 240 large round bales and 20 cores are desired, then every 12th bale should be sampled ($240 \text{ total bales} \div 20 \text{ samples} =$



12). If the lot contains less than 20 bales, sample every bale. For stacked hay or truckloads count the number of exposed bale ends (square bales) or sides (round bales), divide by 20, then sample every nth bale end or side. Using the above numbers if there are 240 bale ends on an exposed side, sample every 12th bale. Equally sample each exposed side of the stack.

Core rectangular bales by centering the probe in the end and inserting the probe horizontally into the bale. Sample round bales by drilling or pushing the probe horizontally into center of the rounded side of the bale.

For round bales, remove weathered material from the area to be probed prior to sampling. Weathered material represents refusal and should not be included in the sample. The probe should penetrate the bale at least 15-18 inches for rectangular or round bales.

After the lot has been sampled, the entire sample should be placed into a labeled plastic bag and sealed. Make sure that the bag is clearly labeled with your farm's name, a description of the hay lot sampled that will allow you to reference the results back to the hay lot, the type of hay, cutting, and year, and the date it was sampled. The sample should be sent immediately to the lab for analysis. In cases where

continued on Page 19

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the sample is not immediately submitted, store the sample in a cool, dry place that is not in direct sunlight. Make sure and complete the sample submission form for the lab that you are using. Do NOT subdivide the sample.

Sampling Baled Silage

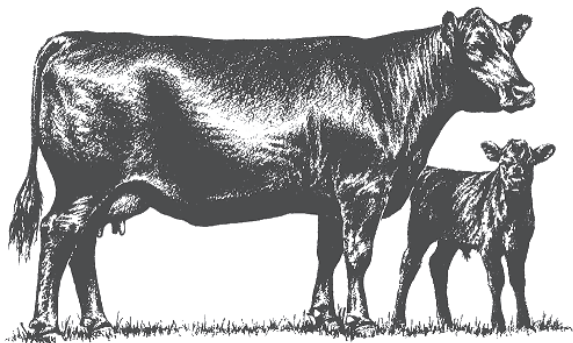
Sample baled silage in the same manner as hay. Delay sampling until at least four weeks after harvest to allow complete ensiling. Samples should be placed into labeled plastic bags as previously described. Submit the samples immediately or refrigerate until shipped. Remember to immediately repair holes caused by coring using a UV-resistant tape designed for silage film.

Using a larger diameter or longer probe or collecting more than 20 cores result in a sample great-

er than ½ lb. This is not problem in itself and may even be more representative of the hay lot. However, most labs are not set up to handle and grind large sample sizes and will only grind a portion of the sample. The portion of the sample ground may not be representative of the lot. Therefore, **AVOID SUBMITTING EXCESSIVELY LARGE SAMPLES FOR ANALYSIS.** If a sample must be subdivided, it should be done using a technique called “quartering”. Thoroughly mix the sample and then pour it onto a clean and flat sheet of butcher paper or similar material. Then divide the sample into four equal parts. Discard two opposite quarters. Recombine the two remaining quarters. If the sample size is still too large, then repeat the procedure until the desired sample size is obtained.

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New York Hereford News

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NY Junior Hereford Association Meat Raffle

The winner of the 2020 Junior Hereford meat raffle was Jim Moore. The winning ticket was sold by Nya Johnson. The ticket was drawn by Heather Sugg and Brenda Dermody at the Genesee County Fairgrounds facility on August 27, 2020. Congratulations to Nya and to Jim Moore.



Locust Lane Herefords Full Access Online Sale Results

5 Open heifers avg \$3150, Top \$4500
1 Steer \$1200
1 Flush \$1400

We would like to thank everyone for their support in our first annual Full Access sale. To everyone that bought, bid, viewed and called about the offering we are extremely grateful! Your confidence in our program is humbling. We look forward to working with all the new owners to ensure continued success!!

Thank you!!
Locust Lane Herefords
Chris and Kristine Dermody
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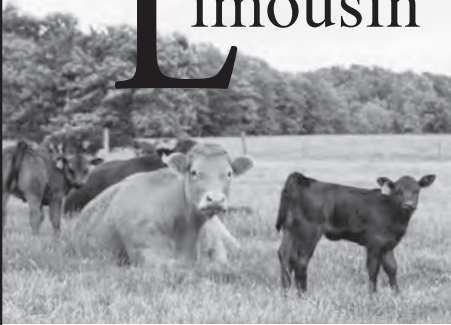
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USDA Announces Additional Assistance For Farmers And Ranchers Through CFAP 2

President Donald Trump and U.S. Secretary of Agriculture Sonny Perdue today announced up to an additional \$14 billion for agricultural producers who continue to face market disruptions and associated costs due to the coronavirus pandemic. Signup for the Coronavirus Food Assistance Program (CFAP 2) will begin September 21 and run through December 11.

USDA will use funds being made available from the Commodity Credit Corporation (CCC) Charter Act and Coronavirus Aid, Relief and Economic Security Act to support row crops, livestock, specialty crops, dairy and other commodities. CFAP 2 payments will be made for three categories, including price-trigger commodities, flat-rate crops and sales commodities.

Beef cattle payments will be based on the maximum owned inventory of eligible livestock on a date selected by the producer between April 16 and August 31. The CFAP 2 payment rate for eligible livestock is \$55 per head.

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DOSAGE RECOMMENDATIONS:

CALVES: Up to 1 year	1 mL/per 100 lbs. bodyweight
CATTLE: From 1-2 years	1 mL/per 150 lbs. bodyweight
CATTLE: Over 2 years	1 mL/per 200 lbs. bodyweight

PRECAUTION:

Selenium and copper are toxic if administered in excess.

Always follow recommended label dose.

Do not overdose.

It is recommended that accurate body weight is determined prior to treatment.

Do not use concurrently with other injectable selenium and copper products.

Do not use concurrently with selenium or copper boluses.

Do not use in emaciated cattle with a BCS of 1 in dairy or 1-3 in beef.

Consult your veterinarian.

CAUTION:

Slight local reaction may occur for about 30 seconds after injection. A slight swelling may be observed at injection site for a few days after administration. Use standard aseptic procedures during administration of injections to reduce the risk of injection site abscesses or lesions.

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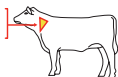
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CALVES	at birth at 3 months and/or weaning
HEIFERS	every 3 months – especially 4 weeks before breeding

(program gives planned dates that can be varied to suit management programs)

DOSAGE TABLE			
ANIMAL WEIGHT (lbs)	CALVES UP TO 1 YEAR 1 mL/100 lb BW	CATTLE 1-2 YEARS 1 mL/150 lb BW	CATTLE > 2 YEARS 1 mL/200 lb BW
50	0.5 ml	-	-
100	1 ml	-	-
150	1.5 ml	-	-
200	2 ml	-	-
300	3 ml	-	-
400	4 ml	-	-
500	5 ml	-	-
600	6 ml	-	-
700	7 ml	-	-
800	-	5.3 ml	-
900	-	6 ml	-
1000	-	6.6 ml	5 ml
1100	-	-	5.5 ml
1200	-	-	6 ml
1300	-	-	6.5 ml
1400	-	-	7 ml

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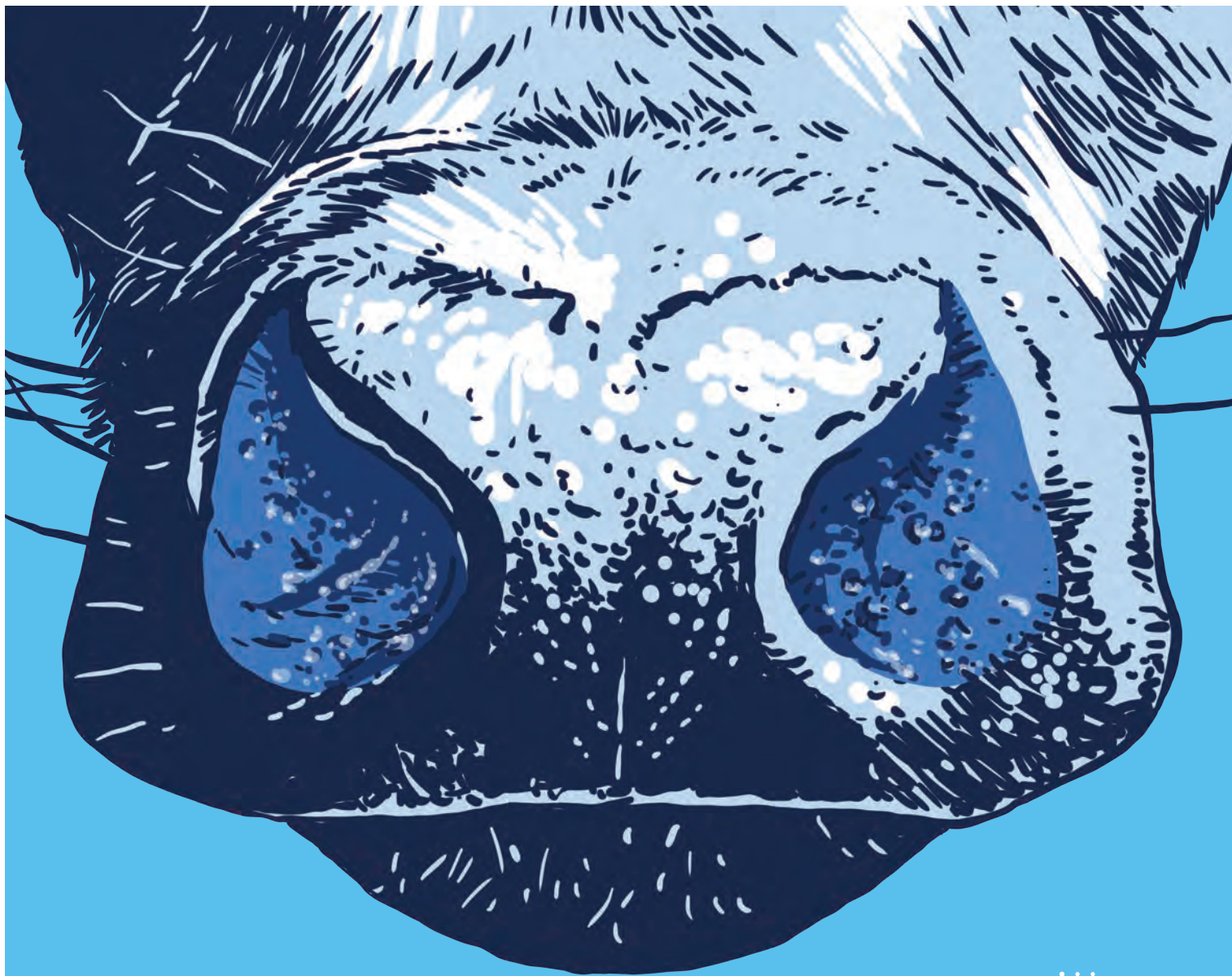
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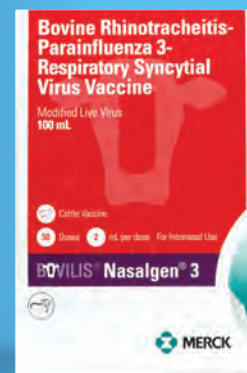
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