TENNESSEE HEREFORD NEWSLETTER

Hereford News and Notes from around the South East

Vol. 41, Number 3 Summer 2018





GRAND PRIZE: A John Deere 5055E Utility Tractor with a H240 Loader

ADDITIONAL PRIZES: (3) 165-Bushel Tarter

Creep Feeders

ONE FEEDER WILL BE AWARDED IN EACH DIVISION OF TENNESSEE (WEST, MIDDLE AND EAST)











PURCHASE CO-OP CATTLE MINERAL AND BE ENTERED TO WIN

This is a sweepstakes for a John Deere 5055E utility tractor with a H240 loader and three 165-bushel Tarter creep feeders. Each participant will automatically receive one entry for each bag of qualifying mineral purchased. Individuals who wish to enter but do not purchase product can enter by sending their name, address and phone number to:

Tennessee Farmers Co-op, 180 Old Nashville Hwy., LaVergne, TN, 37086, attention Feed Department.

The contest will run from August 1, 2017 - July 31, 2018. A total of 1 tractor and 3 creep feeders will be awarded on August 15, 2018. DELIVERIES WILL TAKE PLACE ON OR BEFORE AUGUST 15, 2018.

SEE YOUR LOCAL PARTICIPATING CO-OP TODAY FOR DETAILS

Prizes not claimed within the allotted time will be re-awarded by another drawing. Employees, immediate family members, and vendors of TFC are ineligible. Any local or other taxes or feet associated with a prize are the prize winner's responsibility. This Contest is open to legal residents of Tecnesses who are its years of age or older. This Contest is void wherever prohibited by federal, taste or local line. Subject to applicable law, the Contest Sponsor reserves the right to cancel, asspend, terminate or modify the Contest Bulles without price notice and with no obligation or liability. All incidental costs and expenses associated with the prizes are the responsibility of the prize winner. The chances for winning will depend on the number of entrants received during the Contest Period. Prize winners may be required to execute certain documentation in order to claim their prize. All entries shall become the property of the Contest Sponsor, and entrants understand that his/her name, residence and association with Co-op may be used for publicity or promotional purposes by the Contest Sponsor. By damage, loss or liability to person or property, daw in whole or in part, directly or indirectly, by reason of entering the Contest or the acceptance, possession, use or misuse of any prize or prize activity. All entrants agree to comply with the Contest Ruins, as may be amended from time to time. To the fullest exist allowed by law, this Contest shall be governed by the laws of the State of Tennessee, without shirting effect to its conflict of the state of Tennessee, without shirting effect to its conflict of the state of Tennessee, without shirting effect to its conflict of the state of Tennessee, without shirting effect to its conflict of the state of Tennessee.



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Tennessee Hereford Newsletter • Summer 2018 • 3

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Cover photo from left to right: Nathan Hopkins, Braxton Light, Foster Wingler, John Thomas Woolfolk, Emma Rushton, Heath Quick, Libby Rushton, Lauren Wingler, Tyler Jenkins, Mason Collins, and Ethan Hopkins.

Editor's Point of View

by Kathryn Ingram

Most of our families have been in some aspect of the farming business for multiple generations. We were raised in this business and understand that we must care for our animals and land to be profitable, to be sustainable. However, that is not the public perception of farming.

I teach in a rural community, but most of my students are at least one generation from the farm. Many of these students come in with preconceived ideas about farm practices and food. For example, the majority of my students believe that food with an organic label is healthier, but they cannot explain why or even define organic. Their belief is based on what they see and hear in the media.

Sustainability is the current buzzword in agriculture. The United States agricultural industry and in particular the beef industry has come under fire for allegedly using practices that are detrimental to our environment. At the Beef Improvement Federation meeting this summer, Sara Place, NCBA, spoke about how the U.S. beef industry is sustainable and more environmentally

friendly than many of the other protein sources available. The transcript of her speech is on page 6. Another focus of the BIF meeting was the utilization of EPDs in selection. Dr. Garrick's speech focused on the need to utilize indexes for selection.

This year the THA is utilizing Hereford on The Mountain as our annual field day. Tommy and Kim Coley have put together an awesome panel of speakers focused on marketing. This event promises not only to be educational, but allows time to socialize with our fellow Hereford breeders while supporting the Gospel Partners Orphanage and the 2019 Southeast Regional Hereford Show.

The Juniors have had a busy summer. They have logged many miles and hopefully built new friendships along the way in their travels from the Southeastern Regions Show in Perry, Georgia to the JNHE in Grand Island, Nebraska. I would like to offer special thanks to Meredith Collins, Beth Jenkins, and Gayle Quick for the photos of the Tennessee Juniors at the Junior National Hereford Exposition.

President's Comments

by Julie Chapin

Summer is definitely in full swing in Tennessee! It came in with its full force of heat and dry conditions this year. I realize that summer is supposed to have both of these elements, but this year we seemed to skip the spring weather. Hopefully as you read this newsletter the dry conditions have improved at your farm. I certainly know better than to think the heat has taken a break!

The Tennessee Hereford Association schedule is in full swing and there are several opportunities that I would encourage everyone to take advantage of. It will be a good opportunity for you to gather with your Hereford friends.

I hope by now everyone has had the opportunity to attend Hereford on the Mountain. It will again be held in Sewanee, TN. on August 4th. The theme changes every year so even if you have attended regularly or are considering it for the first time it will be well worth your drive.

This year will focus on promoting and marketing your program. This discussion will be led by several nationally recognized people in online and print marketing. If it is anything like last year, it will be packed full of useful information that you can take back and utilize in your business. We are very lucky in the Southeast to have Tommy and Kim Coley to lead us in this unique event. Anyone needing more information can contact Tommy or go to therford.org.

Your Tennessee Hereford Association will again be hosting a regional point show. The dates this year are August 17th and 18th. It will once again be held in conjunction with the Wilson Co Fair.

This is the 2nd year at this location and we look forward to seeing everyone at this event. We strive every year to improve this event and would love to see you this year. Your participation is also appreciated.

We will be taking sponsorship money for the show and we always welcome help at the show. If you are interested in either of these please contact Glenda Rickman or any of the show committee members. Additional information for interested participants can be found at nhereford.org.

Don't forget all of the local, county and state events to attend in the coming months. It is a good time to promote our beef industry as a whole and especially Hereford cattle! We can reach out, interact and educate people that we meet at these events about or business. You never know who is listening when you meet and converse with new people. See you soon.

Julie Chapin

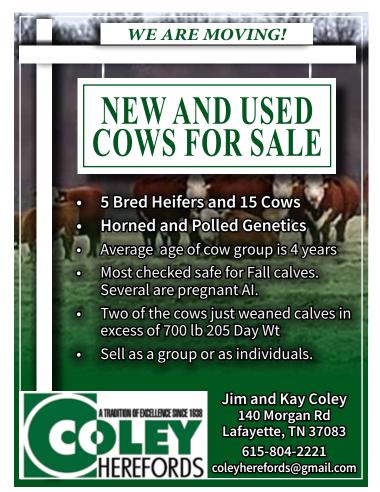
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Quarterly Publication Dates and Deadlines

Issue	Ad Space & Arti- cle Deadline	Print Ready Submission	Published
Winter	December 26	January 5	Feb. 1
Spring	February 25	March 5	April 1
Summer	June 25	July 5	August 1
Fall	August 25	Sept. 5	October 1

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1/2 Page BW	\$120	\$430
1/4 Page BW	\$60	\$215



Southeast Regional Junior Show Results



Champion Owned heifer exhibited by Dru Hunt with KJ BJ 876A LEADING LADY 983E (P43831384), calved 4/17/17 by R LEADER 6964.



Reserve Owned and Champion B&O heifer: Peyton Ridley with R5 SHE MONEY 4003 E42 (P43905686), calved 9/26/17, by Perks 0003 Easy Money 4003.



Champion Cow-Calf Pair, Courtney Eudy with ADE 14U JAZZY 379A (P43471557), calved 11/1/13 by Purple Womanizer 14U ET.

"A Peach of a Show" was held at the Georgia National Fairground in Perry. The 114 head show was judged by Todd and Amy Edwards of Fairmont, Georgia.

Claiborne Perry exhibited the Champion bull, PR 3053 DOMINATOR 1702 (P43856236), 3/10/17, by H L1 Domino 3053 ET. The Reserve Champion bull was exhibited by John Thomas Woolfolk of Tennessee.

The Champion owned heifer was shown by Dru Hunt of

Georgia. The Reserve owned and Champion B&O honors went to Peyton Ridley of Georgia. Reserve Bred & owned was exhibited by Carter St. John of Alabama.

The Champion Cow-Calf pair was shown by Courtney Eudy of North Carolina. The Reseve Champion Cow-Calf pair was exhibited by Morgan Riley of Tennessee.

The Champion Steer was shown by Michael Weathersbee. The Reserve Champion steer was shown by Caleb Brown.

Knoxville Spring Junior Cattle Expo Results



Champion Heifer: Heath Quick, Brighton, with RC MS AVENTUS 752 ET (43823259), calved 1/19/2017 by BR Nitro Aventus 3116 ET.



Reserve Champion Heifer: Heath Quick, Brighton., with RMP 65Z QUEEN CHAR-LOTTE 716A (P43780590), calved 5/02/2017 by Purple Chachi 65Z ET.



Reserve B&O Heifer: Heath Quick, Brighton., with THC 8Y CG LITTLE BOOM 989 E002 (P43794238) calved 3/21/17 by NJW 73S W18 HOMEGROWN 8Y ET.

Beef Improvement Federation 2018: Focus on Sustainability

Sara Place, Senior Director, Sustainable Beef Production Research, National Cattlemen's Beef Association Presentation Transcript Reprinted from "A Steak In Genomics"

Does less beef mean less heat? Is meat, especially beef, not good for the planet?

We see the marketing of plant based burgers. We also see work for lab grown beef.

In the United States, agriculture and forestry are net carbon sinks (they capture carbon). In the US, beef is responsible for 2% of emissions. However, pasture is responsible for 3.9% of carbon capture. Agriculture is a net help in carbon emissions because of carbon capture! Further, carbon emissions are improving over time in agriculture.

However, the news media is not telling this story.

Emissions are not going down due to decreased consumption of beef. Emission are going down because of technology advancements. Productivity is a key driver in improving

sustainability. We would need many more cattle, with much more emissions, if we produced cattle in 2017 they way we did in 1976.

If we continue on current trends, global cattle herd will increase by 7%. However, if rest of world matched rate of improvement we see in U.S. cattle herd, we would see a decrease by 27%! If the rest of world matched U.S. productivity, the world cattle herd would decrease by 53%!

What is the pounds of feed per pound of product for beef, chicken, and pork? Beef takes 13.8 pounds of feed per pound of product. Chicken is at 1.6 and pork at 2.5 pounds of feed. However, beef uses 1.6 pounds of human edible feed. Chicken uses 1.4 pound of human edible feed and pork uses 2.0 pounds of human edible.

However, what is the net protein contribution of these **Sus**

meats? In other words, how much protein does the animal eat and how much does the animal produce. Chicken and pork both eat more protein than they produce (0.85 for chicken, 0.70 for pork). Cattle contribute 2.53 pounds of protein for every pound they eat! Cattle take sunlight and turn it into protein.

Further, cattle can produce food (protein) on land that cannot be used in any other way to produce food.

A lot of feed used for beef production is used for maintenance of cattle (maintenance of cow, maintenance of growing steer).

How can we improve sustainability of beef production?

What can we take from our monogastric friends?

Focus on both components of feed to gain ratio. We are likely nowhere near biological efficiency of cattle. Focus on red meat yield, decrease whole industry maintenance energy costs including improved fertility rates, and avoiding extra fat.

How can we take further advantage of ruminant cattle? Can we add more total gain on forage and reduce use of human edible grains?

Beef's sluggish response to sustainability concerns left open an opportunity for "alternative protein". We need to tell the story of a self-replicating technology that can take energy from the sun in the form of plants and turn it into protein. This technology is beef.

Hereford on the Mountain Saturday August 4, 2018 3:30 CDT Fommy & Kim Coley's house 1284 Stage Coach Rd., Sewanee, TN romoting & Marketing Your Program" Discussion led by nationally recognized experts will include, using: Also enjoy Social Time Live Music CHB Dinner Please RSVP For more information or to RSVP contact: Tommy Coley 815-988-7051 Kim Coley 815-988-2243 tcoley@hereford.org ks.coley@yahoo.com

TENNESSEE HEREFORD ASSOCIATION



-Wilson County Fairgrounds, Lebanon, Tenn.

- Tennessee Junior Hereford Show: Friday, Aug. 18, 2017, 7:00 PM
- Open Show/AHA Regional Hereford Points Show: Saturday, Aug. 19, 2017, 10:00 AM
- Entry fees \$10 if postmarked by July 31, \$20 Late entries accepted if postmarked no later than Aug. 7, 2018.
- Entry forms and the Rules and Regulations are available at www.tnhereford.org
- Class premiums start at \$50 for both shows
 - -Bedding furnished for the barn
 - -Generators welcome
 - -Trailers should enter through the Tennessee Blvd. entrance.

For more information contact Julie Chapin (rivercirclefarm@gmail.com) or Glenda Rickman (glendakr@yahoo.com)

Highridge Farm Victor Domino Herefords

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931 248 7272

highridge@frontiernet.net www.highridgeherefords.com

Sale Report

Sale Date	Name		#Lots	Gross	Avg.	Bull Avg.	Female Avg.
5/28/2018	The Mead Program Sale XVIII	GA	65	\$332,550	\$5,090	\$6,006	\$4,877
5/5/2018	Tennessee River Music "Dixieland Delight"	AL	28	\$202,700	\$7,239	-	\$7,239
5/5/2018	South Carolina Hereford Association Sale	SC	58	\$117,775	\$2,031	\$1,892	\$2,038
4/28/2018	Middle Tennessee Hereford Association Sale	TN	69	\$113,100	\$1,639	\$2,000	\$1,605
4/21/2018	Clifford Farms & Guests Production Sale	KY	46	\$99,825	\$2,170	\$2,100	\$2,175
4/21/2018	Mid-Atlantic Spring Bonanza	VA	46	\$105,475	\$2,318	\$3,000	\$2,204
4/14/2018	Knoll Crest Farm Bull Sale	VA	13	\$103,250	\$7,942	\$7,942	-
4/14/2018	West Virginia Polled hereford Association Sale	wv	41	\$76,125	\$1,857	\$2,256	\$1,760
4/7/2018	Show Me Classic Bull and Female Sale	мо	29	\$61,800	\$2,131	\$2,786	\$1,520
4/7/2018	Georgia's Finest Sale	GA	52	\$128,050	\$2,463	\$2,083	\$2,486
4/7/2018	Burns Farms Annual Bull and Female Sale	TN	109	\$541,256	\$4,966	\$4,204	\$5,390
3/24/2018	Candy Meadows XXI Bull & Female Sale	TN	32	\$168,250	\$5,258	\$4,247	\$6,269
3/24/2018	North Carolina Hereford Classic	NC	47	\$141,250	\$3,005	\$3,150	\$2,995
3/17/2018	CES Polled Hereford/Predestined Sale	GA	43	\$173,650	\$4,038	-	\$4,038

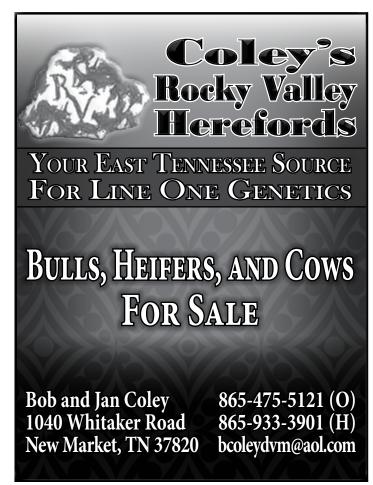


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Spring 2018 THMP Report

by John Woolfolk

Once again, those Tennessee cattle producers participating in the Spring THMP sale were rewarded with some excellent prices for their calves. There are a lot of factors that affect the selling price of an animal.

On this day the one with the largest impact was "trucking". A new buyer at the sale from Nebraska had purchased cattle two days earlier in the TLP Alliance sale and he needed a half load of steers to fill a semi. This lead to competitive bidding resulting in 6 and 7 weight steers bringing as much as \$0.19/lb (\$140/hd) above the average weekly price for same weight steers selling across the state. While other weights missed this lottery price, they did sell at or slightly above the average, which is still much more than they would have brought if sold individually at local sale barns. All heifers sold at or slightly above the state's average price.

The THMP was organized 20 years ago with the purpose of breeders working together to market calves in large groups in an attempt to eliminate the large discounts that we getting when selling individually. Once again, in 2018 the consignors were successful in reaching that goal. Those that participate continually express their frustration about

how much better the sale would be if only more breeders would participate and increase the size of the sale.

The annual fall sale will be October 18th at the Tennessee Livestock Center in Columbia. Anyone that wants to be a part of the best marketing opportunity in the state for calves with Hereford genetics and get top dollar for their weaned calves should begin planning now to participate!

West Tennessee Polled Hereford Association Elects Officers

by Alicia Wright

The Annual Meeting of the WTHA was held on May 18, 2018. The group elected the following members to serve as officers: President- John Wylie, Vice-President- Jimmy Reeves, Secretary/ Treasurer- Alicia Wright

The WTPHA Board of Directors were also elected. Voted to serve as directors were: Gerald Skelton (Group voted for his wife Carolyn Skelton to take his place after his passing), June Walker, Paul Wortham, Elton Bryant, Gus Smith, and Justin Pope.

2018 Junior National Hereford Exposition

by Heath Quick

For many juniors, the highlight of the show season is Junior Nationals. The anticipation and hard work put in for months and months all builds up for that one-week long show. This year's Junior National Hereford Exposition was held in Grand Island, Nebraska June 30th to July 7th.

Tennessee had 11 juniors participate with a total of 22 head placing as high as 2nd in their class. We competed in bred and owned, owned, showmanship, the CHB cook off, livestock judging, and scholarship interviews.

Of course, showing cattle is what it's all about. Even so, I thoroughly enjoy the livestock judging contest every year, with a good team and smart teammates, you might be able to take home a first place trophy like the intermediate team did last year in 2017.

With all the many activities and competitions, it's easy to get overwhelmed and lose track of the most special reason to attend the JNHE, getting to visit and make memories with fellow juniors, friends, and family. Banners and ribbons are fantastic, but years down the road it's the funny jokes or memories that you'll carry with you forever.

So don't take any trips to the wash rack, afternoon cattle walks, or the long haul from home to the show for granted. "Whatever you do, work at it with all your heart, as working for the Lord..."-Colossians 3:23





Selling August 25, 2018 at the Kick-Off Classic

Great Smoky Moutain Expo Center, White Pine, Tenn. at 11:00 a.m.







LOT 24 INNISFAIL Z311 520C

LOT 25 JH NATALIE 50U 3136 5210

LOT 26 GTW 1083 OLIVIA 523

Lot 24: Sired by KCF BENNETT ENCORE Z311 ET. 520C Pasture Exposed 12/1/2017 to 3/9/2018 to THM MADE BELIEVER 6081.

Lot 25 and 25A: Sired by LOEWEN UPTOWN 33N 50U ET. A Great young cow in her prime. Awesome udder and great heifer calf by GTW Z311 Bartlett 515. Pasture exposed 5/9/2018 to 8/15/2018 to KCF BENNETT HOMEWARD C776.

Lot 26 and 26A: Awesome Callahan daughter with a great heifer calf out of GTW Z311 Bartlett 515. Pasture exposed 5/9/2018 to 8/15/2018 to KCF BENNETT HOMEWARD C776.

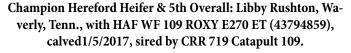


George, Tammy, William and Andy Ward

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2018 Tennessee Junior Beef Exposition Show Results





The 2018 Tennessee Junior Beef exposition was held July 11 - 13, 2018 in Murfreesboro, Tennessee. The 74 head show was judged by Bradley Bennett from the University of Nebraska-Lincoln.

Libby Rushton took top honors in the heifer show with her January 5, 2017, HAF WF 109 ROXY E270 ET (43794859). Mary Carter Shirley was named Reserve Champion with DELHAWK MISS BROADWAY 1712 ET (P43887052),



Reserve Champion Hereford Heifer: Mary Carter Shirley, Sparta, Tenn., with DELHAWK MISS BROADWAY 1712 ET (P43887052), calved 11/3/2017 by KLD RW Bouncer D41 ET.

Champion Bred and Owned heifer, Banner MPR Jellybean 1756 (P43801905), 3/7/2017, sired by CRR 719 Catapult 109.

Libby Rushton of Waverly exhibited the Reserve Champion Bred and Owned heifer, HAF 5815 Khloe F010 ET (P43901703), 1/16/2018, sired by JCS 240 Flintlock 5815.

Complete Results available on the Junior page of thhereford.org

Morgan Riley of Williamson county exhibited the Grand

Beef Improvement Federation 2018: Focus on Traits Not Considered

Transcript from Dr. Dorian Garrick's presentation at the BIF, reprinted from "A Steak in Genomics"

This is a one bull or two bull meeting. This means it cost about the profit from one or two bulls to pay for the attendance of this meeting. Beef producers need to leave this meeting with information and thoughts about how they will change and improve their operation.

We would like to think that you use index selection, but we know that you are probably using independent culling levels or phenotypic selection. However, we can look at genetic trends to see how traits have changed.

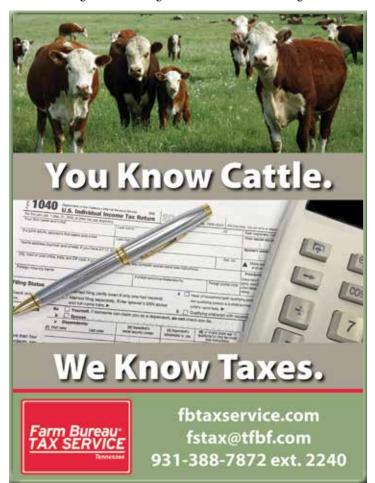
"An average 2017-born daughter eats \$57 more feed per year than an average 1980 daughter."

Weaning weight and yearling weights have increased over time. However, the rate at which these growth traits were changing slowed in 1990, when ultrasound carcass measures were introduced. So, Hereford breeders were still selecting for growth, but were also putting emphasis on other traits.

An average 2017-born daughter eats \$57 more feed per year than an average 1980 daughter. This possibly outweighs improvement in terminal profitability. Mature weights are increasing by 10 pounds per year.

What do you measure?

Calving traits (calving ease scores and birth weight)



- Early growth traits (weaning weight and yearling weight)
- Reproduction
- Ultrasound predictions of carcass traits
- Mature Cow weights and condition scores
- Actual Carcass characteristics
- Actual feed intake

As we move down this list, we have a decreasing number of records.

We need to have a goal. With that goal, what do you want to change? This is your breeding objective. A breeding objective is a list of traits (EPDs) and their economic value. Identifying the list of goals is easy. When we look at the economics value, we realize that some traits are indicator traits and not economically important.

"Selection is a proven and cost-effective mechanism for improvement. Needs to be based on whole-system indexes."

You then need to look at the selection criteria. What traits are you measuring to produce EPDs?

You then need a breeding scheme, a dissemination system, a mating plan, and then an economic analysis. In this economic analysis we think about the overall benefits and the overall costs of this breeding program. The most expensive breeding program is likely not to be the most profitable breeding program.

So, what should our breeding objective be, what traits are we selecting?

- reproduction and longevity
- income over feed cost
- animal welfare
- environmental footprint

We have done a good job on income over feed costs (growth, marbling, calving ease, etc.) We do a very poor job on the rest of this list. The tangible traits like growth and calving ease smack us in the face when they are bad. The less tangible traits like reproduction or cow efficiency receive less intention.

Why aren't traits being adequately considered?

- Not selecting on total merit indexes (e.g. for maternal systems)
- Not measuring enough of the less tangible attributes
- Cannot be measured

Value proposition among bull breeding sector

- Too many animals being recorded
- Not enough traits being recorded
- Not being rewarded by bull buyers (price or demand for less tangible traits)
- Breed association structure might be impeding innovation (routine EPDs provided on all animals regardless of phenotypic measurement or not)

How might more balanced selection occur?

- New technologies
- Subsidies by government (USDA grants are an indirect example of this)
- Local regulations
- Market requirements

New business structures to capture value (small collectives on like-minded breeders)

Reproduction and Longevity

- Inadequate use of puberty data
- Inadequate use of post-partum anestrus interval

Feed Cost

- Forage intake (behavioral aspects walking distance -
- grazing time -sward selection)
- Feedlot intake
- Complex trait where animals can rank differently based on sex, diet, etc.

Animal welfare

Disease resistance

Environmental footprint

- Urinary nitrogen excretion
- Greenhouse gases
- Soil Damage

New Zealand now has limits on amount of urinary nitrogen that can be excreted by a farm. We can reduce the amount of greenhouse gases that an animal releases.

We want to move the cloud. We need to think about traits that are underrepresented (reproduction, animal welfare, environment).

We really need to improve the efficiency of beef production.

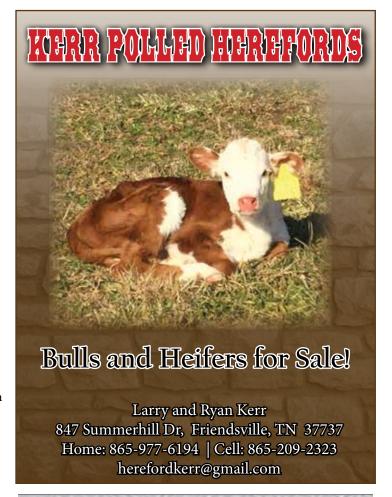
Selection is a proven and cost-effective mechanism for improvement. Needs to be based on whole-system indexes. The best way to do this would be to look at indexes and nothing else.

Middle Tennessee Hereford Association Update

by Billy Jackson

The MTHA held their annual meeting on Friday, April 27, 2018.. Officers elected were Stan East, President; Jerry roberson, Vice-President; and Billy Jackson, Secretary-Treasurer. Phil Spicer, Michael Hanes, and T.J. Daniel were re-elected as direcotrs.

The group voted to increase their annual scholarships to \$500. The 2019 sale will be held at the KY/TN Livestock Market in Cross Plains, Tennessee on April 27, 2019.





KCF BENNETT REVOLUTION W432 ET

MSU TCF REVOLUTION 4R (CHB)(DLF,HYF,IEF)
P42593689 MSU TCF RACHAEL ET 54N (DLF,HYF,IEF)

P43052829 — Calved: Sept. 25, 2009 — Tattoo: RE W432 FELTONS LEGEND 242 (SOD)(CHB)(HYF) FELTONS DOMINO 774 (SOD)(CHB)(DLF,HYF,IEF) FELTONS G15
REMITALL ONLINE 122L (SOD)(CHB)(DLF,HYF,IEF)
HH MISS ADV 786G 1ET

KCF BENNETT 759 H142 (SOD)(OLF,IEF) KCF MISS H142 L332 (DOD) P42219875 KCF MISS 508 B137

CL 1 DOMINO 759 (SOD) KCF MISS 031 C288 MSU PROSPECTOR 508 (SOD) KCF MISS 469R Z177 (DOD)

- Son of breed giant, Revolution
 - Dam is top donor, L332, at Knoll Crest and White Hawk Ranch
- He will be a great cross on our Victor cow herd.

ANDERSON POLLED HEREFORDS

Chris, Penny, Lauren and Tyler 417 Sagely Anderson Rd. • Manchester, TN 37355 931-728-3747 • andersonpolledherefords@yahoo.com

Plant and Other Toxicities in Cattle

by Dr. Lew Strickland DVM, Extension Veterinarian, University of Tennessee

Recently, I have had several calls from producers describing certain plants growing in their pasture or hay field and then asking; "Are these plants toxic Doc?" With this in mind, this is a good time to discuss some of the more common toxic plants before we head into the dryer portion of summer. If any of you have attended one of my talks on toxic plants, I always tell you that animals are smarter than we are. They will not consume toxic plants unless we force them to.

Either through inadvertently baling toxic weeds in a forage product, or penning them in a working pen that has toxic weeds growing around the edges of the enclosure without anything else to graze. Differentiating "good" vs. "bad" plants is a learned behavior, so toxicity is more likely in young animals and animals moved to a new location.

"I always tell you that animals are smarter than we are. They will not consume toxic plants unless we force them to."

A grazing management and supplemental feeding plan is essential to minimize problems. Veterinarians and producers should be familiar with which plants can cause problems in their area, and try to avoid them.

The following discussion covers some of the common plants and situations to watch for on your farm (There may be plants that grow some regions not covered here.)

Pastures recently fertilized are at higher risk for nitrate toxicity. Plants that have accumulated nitrates remain toxic after baling or ensiling. Nitrate testing is available for forages to prevent poisoning. Prussic acid accumulates most often in sorghums, Sudan grass and Johnsongrasses, but these plants can accumulate nitrates also. There is no test for prussic acid, but it dissipates in baled or ensiled forages, so these are safe. Cattle poisoned by nitrates or prussic acid are usually found dead, so prevention of these toxicities is critical.

Nitrate and prussic acid toxicities both interfere with oxygen carrying capacity in the blood, so cattle with nitrate toxicity have brown blood and cattle with prussic acid toxicity have bright, cherry red blood. Pregnant cattle surviving these poisonings often abort.

Two of the most toxic plants found in croplands and pastures are coffeeweed and sicklepod. Cattle will generally not graze the green plant unless other forages are scarce. The plant remains toxic when harvested in hay/balage/silage. Coffeeweed and sicklepod are toxic to muscles and cause weakness, diarrhea, dark urine, and inability to rise. There is no specific treatment or antidote, and once animals are down, they rarely recover.

Pigweed is very common in areas where cattle congregate. Cattle will readily eat the young plants, but avoid the older plants unless forced to eat them. A common pigweed-poisoning scenario is penning cattle where pigweed is the predominant plant and no alternative hay or feed is provided. Red root pigweed is more toxic than spiny root pigweed, but is less common.

Pigweed can accumulate nitrates, so sudden death is the most common outcome. It also contains oxalates, so renal failure can also occur.

Black nightshade is common in croplands, and like pigweed, in often in high traffic areas. The green fruit is most toxic, so cattle should not have access to nightshade during this stage, and nightshade remains toxic in harvested forages. Nightshade is toxic to the nervous and gastrointestinal systems, and causes weakness, depression, diarrhea, and muscle trembling among other signs. Bullnettle and horsenettle are in the same plant family as nightshade. They are also toxic, although less so, and are usually avoided by livestock unless other forages are not available.

Blue-green algae blooms in ponds can also occur in hot weather. The algae usually grows later in the summer, but I have spotted several ponds that already have blue-green algae growing on them. They are most common in ponds with high organic matter, such as ponds where cattle have access to wade, or where fertilizer runoff occurs. The blue-green algae accumulates alongpond edges, especially in windy conditions, and exposes cattle when they drink.

Both the live and dead algae are toxic. The toxins can affect the neurologic system causing convulsions and death, sometimes right next to the source. They can also affect the liver, causing a delayed syndrome of weight loss, and photosensitization (skin peeling in sparsely haired or white haired areas).



Perilla mint (Photo :USDA, NRCS. 2018.)

Perilla mint causes acute bovine pulmonary edema and emphysema (ABPE), usually in late summer. It grows in most of the central and eastern United States and is common in partial shade in sparsely wooded areas, and around barns and corrals. There is no treatment, so prevention is critical.

Cocklebur is an additional toxic plant that will grow in pastures. The two-leaf stage can cause acute liver failure, and if there is little other forage available due to prolonged drought/overgrazing, cattle may eat toxic amounts.

Now is the time to inspect areas in your pasture and along fence lines/barns for growth of any of these plants. Keeping a close watch may very well head off potential toxicities down the road.

If you have any questions, contact your Extension agent, or contact me at lstrick5@utk.edu, or 865.974.3538.

In Memory



Michelle Crain Rankin

Laura "Michelle" Rankin, age 44, of Henning passed away Wednesday, July 4, 2018 at Lauderdale Community Hospital of Ripley, TN. Michelle was born March 20, 1974 in Jackson, TN. She is the daughter of Neal and Martha Lynn (Gooch) Crain.

She was employed by Brighton High School as an Agriculture Teacher.

She is survived by her husband, Todd Rankin. Michelle leaves a daughter, Addie Rankin and a son, J. D. Rankin. She is also survived by her parents Neal and Martha (Gooch) Crain of Ripley, TN. Michelle also leaves her father and mother in law, David and Sandra Rankin of Whitwell, TN

In lieu of flowers, memorials may be made to the Regions Bank Michelle Rankin Memorial Fund which has been created in Michelle's honor.

Acct-3998 C/O Jessica B. Jones 1009 Hwy 51 S Covington,TN 38019

Or, The First Baptist Church of Covington 2105 TN 59 Covington,TN 38019.



Gerald Richard Skelton

Bells, TN - Funeral Services for Mr. Gerald Richard Skelton, age 81, will be held at 5:00 p.m., Monday April 18, 2018, at Cypress Methodist Church with Gene Burkeen officiating. Interment will follow in The Cypress Methodist Church Cemetery.

Mr. Skelton passed away, Saturday, June 16, 2018, at his home in Bells, TN. He was born, September 20, 1936 in Crockett Mills, TN, to the late Richard Beecher Skelton and Emma Fern Harber Skelton.

Mr. Skelton is also preceded in death by his brother, Jerry Harber Skelton.

Surviving relative include his wife, Carolyn Skelton; sons, Ricky Skelton (Karen), Brian Skelton (Monica); grandchildren, Richard Chace Skelton, Robert Joseph Skelton, Hunter Daniel Skelton, Christopher Heath Skelton.

In lieu of flowers the family has asked that donations be made to the Cypress Cemetery Fund or to Neighbors Offering Assistance and Hope (H.O.P.E.)



Bob Woodard

John Robert "Bob" Woodard, age 85 of Springfield, died Friday, May 25, 2018 at NorthCrest Medical Center. Funeral services will be conducted Tuesday, May 29, 2018 at 1:00 PM in the Oakhurst Chapel of Robertson County Funeral Home with Rev. Alicia Burton and Rev. Mark Calvert-Rosenberger officiating. Burial will follow in Elmwood Cemetery with Phil Spicer, Jason Woodard, Phillip Spicer, John Krisle, Frank Sanford, Darren Hallman, Neil Southerland, and Ted Stubblefield serving as pallbearers. Honorary pallbearers will be the members of the Springfield Civitan Club. The family will receive friends on Tuesday from 10 AM until the hour of service.

Mr. Woodard was born October 26, 1932 in Robertson County to the late William and Jessie Frances Winters Woodard. He was a member of Central Christian Church and was a farmer. He was also a member of the Springfield Civitan Club and the American and Tennessee Hereford Associations. He was also a past member of the Board of Directors of Farm Bureau. In addition to his parents, he was preceded in death by his brother, William W. "Bill" Woodard and a niece, Libby Spicer.

He is survived by his wife, Dorothy Jane "Dot" Woodard of Springfield; nephew, Winn Woodard and wife Kathy of Springfield; niece, Sherry Keene of Atlanta, GA; great nephews, Phil Spicer and wife Annie of Springfield and Jason Woodard of Nashville; nieces, Beth Woodard of Nashville, Nan Moore and husband Miller of Knoxville, and Krista Massey and husband Chad of Atlanta, Ga; and nephew-in-law, Phillip Spicer of Nashville.

The family request, if so desired, for memorial contributions to be made to Central Christian Church. All donations can be sent c/o Robertson County Funeral Home.

Robertson County Funeral Home is in charge of arrangements.

Please submit all obituaries, wedding announcements and births to katingram.123@gmail.com. Announcements must be submitted by the 5th of the month prior to publication to insure placement.

BREEDER AND SERVICE CARDS



East Tennessee



ETPHA

easttnpolledhereford.org 423-420-1023 katingram.123@gmail.com

Secretary-Treasurer: Kathryn Ingram 3149 Old Hwy 68, Madisonville, TN 37354

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Ada Rogan 2422 East Main St. Rogersville, TN 37857 Home (423) 272-2706

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-HEREFORD-"ALL THINGS CONSIDERED"

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Contact the American Hereford Association's Eastern Region Field Representative for your Hereford Seedstock Needs ...

Tommy Coley 815-988-7051 tcoley@hereford.org

Tommy Coley serves as the communication link between the American Hereford Association (AHA) and breeders in Alabama, Florida, Georgia, Mississippi, North Carolina, South Carolina, Tennessee and Virginia.

Coley attends Hereford sales and events as well as assists breeders with marketing and genetic selection. He also helps educate members and commercial producers about AHA programs and other beef industry opportunities.



P.O. Box 014059 Kansas City, MO 64101 816-842-3757 • 816-842-6931 Hereford.org

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Upcoming Events

<u>August</u>

AUG. 4 -HEREFORD ON THE MOUNTAIN, SEWANEE, TN

- AUG. 9 -DOGWOOD FARM SALE AND FIELD DAY, LA CENTER, KY
- AUG. 17 -TENNESSEE JUNIOR HEREFORD ASSN. STATE SHOW, LEBANON, TN
- AUG. 18 -TENNESSEE HEREFORD ASSN. STATE SHOW, LEBANON, TN
- AUG. 20 -APPALACHIAN FAIR JUNIOR HEREFORD SHOW, GRAY, TN
- AUG. 22 -APPALACHIAN FAIR HEREFORD SHOW, GRAY, TN
- AUG. 23 -KENTUCKY STATE FAIR JUNIOR HERE-FORD SHOW, LOUISVILLE, KY
- AUG. 24 -KENTUCKY STATE FAIR HEREFORD SHOW, LOUISVILLE, KY
- AUG. 25 -EAST TENNESSEE KICK-OFF CLASSIC SALE, WHITE PINE, TN

SEPTEMBER

SEPT. 1	-THE BREEDERS CUP SALE AT BOYD BEEF
	CATTLE, MAYS LICK, KY

- SEPT. 3 -PARKER BROS. POLLED HEREFORDS SALE, BRADYVILLE, TN
- SEPT. 9 -TENNESSEE STATE FAIR OPEN HERE-FORD SHOW, NASHVILLE, TN
- SEPT. 14 -TENNESSEE VALLEY FAIR HEREFORD SHOW, KNOXVILLE, TN
- SEPT. 29 -BURNS FARMS & FRIENDS SALE, PIKEV-ILLE, TN
- SEPT. 30 -ALABAMA NATIONAL FAIR HEREFORD SHOW, MONTGOMERY, AL

OCTOBER

OCT. 1	-JMS POLLED HEREFORDS PRIVATE TREA-
	TY BULL SALE, KNIFLEY, KY
	-KEYSTONE INT'L LIVESTOCK EXPOSI-
OCT. 5	TION NAT'L HEREFORD SHOW, HARRIS-
	BURG, PA
OCT. 5	-DIXIE CLASSIC FAIR HEREFORD SHOW,
001.3	WINSTON-SALEM, NC
OCT. 6	-MISSISSIPPI STATE FAIR HEREFORD
001.0	SHOW, JACKSON, MS
OCT. 6	-JOURNAGAN RANCH/MISSOURI STATE
001.0	UNIVERSITY SALE, SPRINGFIELD, MO

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Owner Name(s)		
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	c/o Kay Coley	
	140 MorganRd Lafayette, TN 37083	

Selling at East Tennessee Polled Hereford Association **Kick-Off Classic**

August 25, 2018, 11:00 AM **White Pine, Tennessee**



Lot 1 — Walker Lass 71T 102 401B Sired by NJW R125 67M RADAR 71T ET

- Very nice female by Radar 71T. 401B has a very nice udder and pigment. OCV.
- AI serviced April 13, 2018, to NJW 144Y 57C WOW 68E, then pasture exposed April 16 to July 15, 2018, to FTP Porterhouse 455B. Safe in calf, likely to AI.
- Consigned by Walker Polled Hereford Farm



Lot 2 — Walker Lass 322 346 553C

Sired by WALKER ANCHOR X51 7115 322 {CHB}{DLF,HYF,IEF}

- A big stout daughter of Anchor. This cow has great milk flow.
- Pasture exposed April 10 to June 30, 2018, to SHF Yankee R117 Y52. Safe in calf.
- Consigned by Walker Polled Hereford Farm



 Walker Roxie 3007 401B 7119E Sired by THM 100W ROCK SOLID 3007 ET {DLF,HYF,IEF}

- 7119E is a sweetheart sired by Rock Solid.
- Sells open. OCV.
- · Consigned by Walker Polled Hereford Farm



Lot 2A — Walker JH Fuel 5100 553C 8215 Sired by MCR FLINT HILLS 10Y 5100 ET {DLF,HYF,IEF}

- 8215 should be a tremendous calving ease sire. His actual BW was 76 lb. with a ratio of 94. Our calves by Flint Hills are beyond our expectations. Add some Fuel to your herd with this outstanding herd sire prospect.
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Tennessee Hereford Newsletter • Summer 2018 • 19

EAST TENNESSEE POLLED HEREFORD ASSOCIATION ORich-Off Classic

Saturday, August 25, 2018 • 11:00 AM (EST)
Smoky Mountain Expo Center • White Pine, Tennessee
Selling 56 Lots

Cows • Bred Heifers • Open Heifers • Bulls • Commercial Lots



Lot 24 - INNISFAIL Z311 520C



Lot 50 - CES VICTORIA 4009 M21



Lot 25 - JH Natalie 50U 3136 5210



Lot 27 - CPH MS PATCH TIME Z239



Lot 1A - Walker Roxie 3007 401B 7119E



Lot 41 - RF Miss Cotton 7018



Lot 36 - DJF PROFICIENT ON TARGET MOSES



Lot 9 - KPH EDNAE217



Lot 28 - CPH MS SHAMELLIE GOLD 18U C531

FOR MORE INFORMATION CONTACT 423.420.1023 OR VISIT WWW.EASTTNPOLLEDHEREFORD.ORG