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Free with paid membership to one or more of our partner organizations.

HoofPrint: The Small Ruminant Magazine is a periodical to promote better animal health, husbandry, and knowledge among sheep and goat producers. HoofPrint is the joint effort of members of the sheep and goat industries and serves as a united voice for all small ruminant producers.

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ISSUE CONTENTS

- Savanna Goats in the United States 10
- Membership Renewal Information 12
- Kentucky AgVets Intern Host Responsibilities 14
- Kentucky Natural Fiber Center Opens at Mustard 16 Seed Hill in Millersburg
- 22 Bluetongue

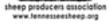
HEALTH AND MANAGEMENT

Abortions in Sheep and Goats: What to Do and 20 How to Protect Yourself

Association News & More

- **KY Goat Producers Association** 4
- TN Sheep Producers Association
- **KY Sheep & Wool Producers Association**
- Breeders' Page 23
- Market Place 24









e the Date April 30, 2022 **KGPA Field Day Logan County Extension Arena**





Your \$30 membership includes:

- 4 issues of the *Hoof* Print Magazine plus the newly designed 2022 Sheep and Goat Management Calendar
- A unified voice for the goat industry on the state and national level
- Representation on important committees such as the Check-Off and the Animal Care Standards boards
- Support of various educational and youth activities
- Youth Membership forms can be found at kysheepandgoat.org/KGPA.html
- And much, much more!

JOIN or RENEW TODAY!

KGPA Membership Application

Name	
Name.	
Address:	City:
State: Zip:	Breed:
Phono:	Club Lamb □ Fiber □ Dairy □ Commercial □ Purebred □
rnone.	Commercial in Fullebleu in
E-Mail:	
Please enclose a check for \$	30 made out to KGPA and mail to:
Kentucky Sheen and Goat [Develonment Office

P.O. Box 4709, Frankfort, KY 40604-4709.

Mail form or Visit www.kysheepandgoat.org to join today!

Congratulations

to the newly elected officers and board members!

2022 Board of Directors

Angie Downs, President

kygirlfarm@gmail.com, Marion County

Vicki Watson, Vice-President

dvwatson@logantele.com, Logan County

Beth Johnson, Secretary

Bethc.johnson@ky.gov, Boyle County

Kay DeMoss, Treasurer

kaydemoss1@windstream.net, Jessamine Co.

KGPA Directors 2022

Christina Morris,

Blessedacreskikofarm@gmail.com, Christian County

Jeff Royalty,

dirtpofarmboy@gmail.com, Oldham Co.

Anita Vaske,

4lcloverb@gmail.com, Grant County

David Watson,

dvwatson@logantele.com, Logan County

Rochelle Boland-Heilers,

rochbol@yahoo.com, Adair County

Newly elected officers can be found at www.kysheepandgoat.org/kgpaannual-meeting

CALENDAR OF EVENTS

JANUARY •

- **Orthodox Christmas**
- graded sale Richmond 10
- graded sale Paris 11
- graded sale Bowling Green 13
- 15 graded sale Springfield
- 18 graded sale West KY
- 25 graded sale Richmond
- graded sale Paris 26
- graded sale Bowling Green 28

FEBRUARY

- 8 graded sale Paris
- graded sale Bowling Green 10
- graded sale Richmond 14
- graded sale West KY 15
- 19 graded sale Springfield
- graded sale Richmond 22
- 24 graded sale Bowling Green
- graded sale Paris 25

MARCH •

- graded sale Paris
- graded sale Bowling Green 10
- graded sale Richmond 14
- graded sale West KY
- 16-17 **UK Shearing School**
- 16-17 **Purim**
- KSU Third Thursday Field Day, no registration required
- graded sale Springfield
- graded sale Bowling Green 24
- graded sale Richmond 28
- graded sale Paris 29

Greetings from middle Tennessee!

elcome to 2022! Time for a lot of you to start lambing and starting over on a new set of genetics. What a great time to be in the sheep industry with the amazing prices we have been seeing over the last 6 months or so for market lambs. Most people I have checked with feel this will hold on through a good part of 2022 as well. Not sure how the new legislation allowing UK imports will affect us so time will tell on how that all plays out.

Update on our 2021 Annual Meeting in Lebanon, TN we have changed the date to January 7th & 8th, 2022. I encourage you to set the dates on your calendar and plan to join us. Lebanon is just east of Nashville (about 30 minutes) and a great place to visit. Visit our website for meeting info and speakers.

Now is the time to renew your membership in your local state association for support of all the work that goes into promoting and educating people on the industry. The Tennessee Sheep Producers Association and KY Sheep & Wool also, we depend on membership and active members for growth in the association and within the industry we are involved in. To do that we need everyone's help as members to ask all your friends and people in the industry you come across to join and get involved. It is a thankless volunteer effort to continue to grow and push the industry and we can't do it alone. If you are interested in serving on some committees for Tennessee Sheep Producers.

The Tennessee Ag Enhancement Program (TAEP) opened October 1-7, 2021. This program is such a valuable resource for producers in our state. Now is a great time to look over what is available, do some

TN Ag Enhancement Program

2021-2022 Important Dates and Deadlines

Event	Deadline
2021 Application Period	October 1-7, 2021
Approval Notifications- to be mailed	Mid-December 2021
Reimbursement Packets - to be mailed	January 2022
Decline Funding Deadline - Hay Equipment & Livestock Equipment	March 1, 2022
Reimbursement Request Deadline - Hay Equipment & Livestock Equipment	April 1, 2022
Decline Funding Deadline - Genetics	May 1, 2022
Reimbursement Request Deadline - Genetics	June 1, 2022
Decline Funding Deadline - Dairy Solutions, Herd Health, Livestock Solutions, Permanent Working Structures, Row Crop Solutions, Poultry Grower, Producer Diversification	July 1, 2022
Reimbursement Request Deadline - Dairy Solutions, Herd Health, Livestock Solutions, Permanent Working Structures, Row Crop Solutions, Poultry Grower, Producer Diversification	August 1, 2022

planning, and see what you need to help your operation. Also, great time to make sure your TAEP certification is still active. If you have never applied, contact your local TN Extension office and you will see the benefits of this program. The deadlines for making decisions within the program are listed below.

We will be doing some updates to our website and Facebook page for information that comes up or changes so visit often.

Good luck and hope everyone can stay safe, stay warm and dry during this exciting and stressful time.

Robert Walker, President Tennessee Sheep Producers

Membership	Name:
Application	Address:
TENNESSEE	City: State: Zip:
	Phone:
sheep producers association www.tennesseesheep.org	Breed(s) of Sheep:
	Please enclose a check for amount made out to TSPA and mail to:
ANNUAL DUES: Adult: \$30.00 Junior	Tennessee Sheep Producer's Association 4233 Poplar Hill Road, Watertown, TN 37184
If you are interested in a committee please sele	
Wool Youth	JOIN ONLINE TODAY!
Jr. Expo Sale	JOIN ONLINE TODAL.
Production Education Members	
Publicity Annual M	eeting www.tennesseesheep.org/joinonline.htm

Tentative Meeting Schedule Tennessee Sheep Producers Wilson County Fair Grounds, Q Barn Lebanon, TN

January 7-8, 2022

Friday, January 7

6:00 pm: Welcome - Robert Walker, TSPA President

Meet & greet, hors d'oeuvres

Marketing: Market Strategies for Sheep and Sheep Products 7:00 pm:

7:45 pm: Update - UT Master Small Ruminant Program

8:00 pm: Marketing: Using Social Media for Marketing Sheep and Sheep Products

8:45 pm: Update: Wool Pool

Saturday, January 8

8:00 am: Welcome - Robert Walker, TSPA President

8:05 am: What Works on Your Farm - Novel Hacks to Make Life Easier

8:30 am: Update- TAEP updates

8:45 am: Determining Sheep Age Using Dentition (Mouthing Sheep)

9:00 am: Break (Trade Show)

9:30 am: Update - Scrapie and Other Diseases

9:45 am: Annual Meeting of TSPA

ASI representative report

Make It With Wool Contest report

Election

Recognition of Sponsors/Trade Show

10:30 am: Break

10:45 am: Using NSIP for Flock Improvement

11:30 am: Performance of Hair and Wool Crossbreds

12:15 noon: Lunch and Awards Program



sheep producers association www.tennesseesheep.org

2021-2022 TSPA Board of Directors

President/ ASI Rep. - Robert Walker, Alpine, TN robert.walker@westforkfarms.com

Vice President – *Deborah Joines*, Lebanon, TN debbie@indigovalleyfarm.com

Secretary/ Treasurer – *Mark R. Powell*, Watertown,TN shepherdboy1@yahoo.com

2021-2022 TSPA Board Members

- Kevin Durett, *Cottontown*, *TN* kevin.durrett@ymail.com
- Dennis Fennewald, PhD, TN Tech- dfennewald@tntech.edu
- Thomas Greenlee, *Rutledge*, *TN* jgreenl4@utk.edu
- Dwight Loveday, Louisville, TN hloveday@tennessee.edu
- Mark Shedden, *Knoxville*, *TN* rmnps@bellsouth.net
- Scott Keeler, *Columbia*, *TN* scissortailfarmtn@gmail.com
- Dee Wolters. *Culleoka*, TN twolters@bellsouthnet
- Jessica Harris Shanks, Knoxville, TN jharri50@utk.edu

PRESIDENT'S LETTER

have received several calls from people looking for ewes. Some wanting to expand their flock and others wishing to start in the sheep business. It seems ewes are hard to find this year. I believe this is due to a couple of factors. First, there are more people realizing sheep can be a profitable enterprise, both on a smaller scale and as an addition to their cow operation, but also because market prices have been so good it is easier to sell lambs at market than deal with several individuals looking for 10 head. The scarcity of quality ewes and high market prices is good for those with sheep for sale but it does make it harder for the sheep industry in Kentucky to grow.

Many parts of Kentucky are not very conducive to row crop farming which is why we have been one of the largest cattle producing states east of the Mississippi. There is no reason we can't also be a major sheep producer. From the mountains of Pikeville to the river bottoms of Paducah, there is a place for sheep.

I believe sheep have a bright future in KY and nationally. However, we all need to do our part. There are local, state, national, and even international issues that can affect sheep producers. Some may not be aware of the opening of our market to sheep products from the UK. Over 50% of lamb is already imported and this could put more pressure on US producers. It is vital in this day and age that we have a united voice to address issues such as this. Most of us simply want to raise our sheep and that is precisely why we need organizations like KSWPA to speak for us and keep us informed. I know I am sort of preaching to the choir but we all need to become ambassadors for our industry. So, let's work together to support each other. Talk to others about sheep and the need for a strong KSWPA. A rising tide floats all ships.

Richard Popham KSWPA President

KSWPA Officers 2021-2022

President - Richard Popham, Meade County richard@circlepkatahdin.com

Vice President – *Harry Frederick*, Monroe County – windingcreekfarmsKY@gmail.com

Secretary – *Sue Churchill*, Woodford County – thistlesend@gmail.com

Treasurer - Dorothy Vale, Jessamine County valerdv@aol.com

ASI Director- *Jim Mansfield*, Woodford County – jim@fourhillsfarm.com

KSWPA Directors

- •Matt Hamilton, University of Kentucky
- •Warren Adcock, Henry Co. wadcock6307@hotmail.com
- Kathy Meyer, Bourbon County 1tkmeyer@bellsouth.net
- •Carey Holton, Butler County careyholton@gmail.com
- •Patrick Angel, Laurel County pangel9491@gmail.com
- Zack Schwartz, Bourbon County z.m.schwartz@hotmail.com



JOIN or RENEW TODAY!

Visit www.kysheepandgoat.org

KSWPA Membership Benefits

- Quarterly issues of HoofPrint Magazine plus the newly designed 2022 Sheep and Goat Management Calendar
- A unified voice for the sheep industry and representation on important state and national committees
- Assistance with new marketing opportunities such as The Kentucky Sheep and Fiber Festival and HoofTrader.com
- Receive a membership to the American Sheep Industry, our national lobbying, marketing and promotional support system.

 Support of various educe 	cational and youth activities			
Name:	Phon	Phone:		
E-Mail:				
Address:	City :	State: Zip:		
Please enclose a check for	\$30.00 made out to KSWPA and mail to:	Breed:		
Kentucky Sheep and Goat I	Development Office	Dairy □ Club Lamb □ Fiber □		
PO Roy 4709 Frankfort KV 40604-4709		Commercial □ Purebred □		

Congratulations

7ith a new year comes new opportunities. Welcome to our newly elected assoication officers and board of directors. You can learn more about them online at www. kysheepandgoat.org/kswpa-annual-meeting

The following people were elected for the 2022

Officer Slate for the KSWPA.

President: Richard Popham Vice President: Harry Frederick Secretary: Sue Churchill

Treasurer: Dorothy Vale

The following 3 people were elected to the board:

Carey Holton Jim Mansfield Zack Schwartz

in remembrance



Lauren and her favorite ewe, Lucy.

Lauren White was to be one of the new elected board members of the Kentucky Sheep and Wool Association. Tragically, she was killed in a car accident in her hometown of Winchester in November. She leaves behind a beautiful family including her husband and three young sons. She also leaves behind her beloved flock of sheep and a deep love of farming and tending to her land. She will be greatly missed by all who knew and loved her.

CALENDAR OF EVENTS

JANUARY

7- Orthodox Christmas

10- graded sale Richmond

11- graded sale Paris

13- graded sale Bowling Green

15- graded sale Springfield

18- graded sale West KY

24- graded sale Richmond

25- graded sale Paris

27- graded sale Bowling Green

FEBRUARY'

8- graded sale Paris

10- graded sale Bowling Green

14- graded sale Richmond

15- graded sale West KY

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16-17- Purim

17- KSU Third Thursday Field Day, no registration required

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28- graded sale Richmond

29- graded sale Paris



"A pair of young Savanna kids showing the characteristic stocky build for which the breed is known."

Savanna Goats in the United States

by Paulette Wohnoutka is the Executive Director of Pedigree International

Origin

The Savanna goat's origin began in the Savanna Veld of South Africa in 1957. Lubbe Cilliers (DSU farm) took his first stud buck and selected for allwhite goats from the indigenous bush goats. He wanted hardiness, survivability, and adaptability as his primary traits. By 1993, the Savanna had distinguished itself as its own breed and the Savanna Goat Breeders Society (Association) was formed and developed breed standards in South Africa.

Importation to the United States

In 1994 Jürgen Schulz (JCS farm) imported the first and only live Savannas into the United States. The

Savannas came in with the famous CODI/PCI Boer goat flight. Mr. Schulz kept and bred Savannas for several years, thus becoming the first Savanna breeder in the United States. In 1998, these 32 Savannas were sold to the public at his Kifaru dispersion sale. Each goat sold was given a certificate and pedigree of its breeding. These first buyers became the breeders of a new industry. In 2000 these breeders commissioned Pedigree International to track and maintain a herd book of these rare goats. In 2000, and 2001, Keri-Rose consulting (KRI) and Ms. Denise Peterson (Amore Arts Farm) imported frozen embryos from South Africa to help grow and diversify the Savanna genetics in North America with 8 more goats. In 2006, Mr. Kenneth Mincey commissioned frozen embryos to move from South Africa to Australia for implantation into recipient goats. The 21 Savanna goats would eventually be imported to his Georgia farm (MGF) in 2010. The



"Y8 is an early genetics buck that was brought back through collected semen. Trevor & Jamie Ballif did the first embryo transfer program with the Y8 semen."

Mincey's would perform embryo transplant programs to grow their numbers. These are the only sources of Savannas in North America. Any new genetic material is currently banned under international law.

"A doe and her twin kids. Savannas are known for their excellent mothering instincts, often gently pawing newborn kids to make them get up and nurse."



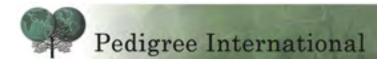
Savanna features

- Exceptional mothering skills
- Parasite tolerance
- Aggressive foragers
- Very aggressive breeders
- Vigorous, fast-growing kids
- Less producer input
- Strong legs and hoofs
- Higher weaning weights
- Excellent for crossbreeding adding muscle
- Improved muscle carcass yields



HLF Blitz, fullblood Savanna herdsire at Heiland Farms in Columbia, Kentucky.

Visit Pedigree International website at: www.PedigreeInternational.com for more information and list of active breeders near you.









It's Time to Renew!

Can you believe 2022 is here? Felt like it was never going to get here!

This means it's time to renew your association memberships! Your associations work hard to provide support to producers, promote the industry, and advocate for small ruminant producers. And we want to keep helping you begin and grow your operations.

Your association membership is a way to be connected with other producers who are growing, learning and working in your industry. Together we make our industry better! Plus, you get some great perks too:

- Receive the KY Sheep and Goat Management Calendar
- Free Standard Listing in Breeders Directory
- Membership to the American Sheep Industry Association and the ASI Newsletter (KSWPA & Dual)
- Become part of a unified voice for all goat and sheep producers
- Network with producers to gain access for information, breeding stock, etc.
- Be In-the-know for changes in the industry
- Be represented in the Kentucky Farm Bureau Small Ruminant Commodity Group, Agriculture Council, Livestock Improvement Association, and much more.

What happens if you don't renew? You will lose...

- Email notifications of education and funding opportunities
- HoofPrint Magazines
- 2022 KY Sheep and Goat Management Calendar
- ASI Membership
- Breeder Directory listing
- Discount pricing on current and NEW educational courses offered by KSGDO, KGPA and KSWPA







Want to Direct Market Your Farm Products?



Get Started Today at www.kysheepandgoat.org/direct-marketing



Fiber and Meat Processing



Product Marketing



Economics

Kentucky AgVets Intern Host Responsibilities

Goal of the Internship Program:

To create a hands-on opportunity for active-duty military services members to learn more about production agriculture.

Roles and Responsibilities Include:

- Host participant on farm or agribusiness at least four (4) days per week for at least eight (8) weeks;
- Serve as a resource for production and business questions;
- Provide opportunities for intern to participate in the day-to-day aspects of the operation; and
- Work with intern to understand key considerations and challenges that are associated with your business.

Time and Financial Commitment:

Interns will not be paid by host and will hold their own insurance through the Army. Participants must receive a minimum of 80 hours of hands-on training over the eight (8) weeks. Work schedule will be season appropriate and will be reviewed by program manager prior to internship starts. Interns are required to provide their own transportation to the farm or agribusiness.

Resources and Training

All hosts will be provided access to online and print resources to share with participants as needed. The Kentucky AgVets Program Manager will meet with each host prior to the beginning of the internship. Participants will submit weekly reports to receive credit for AGR 180 through Hopkinsville Community College system.

Key Topics to Cover During Mentorship:

- Production cycle of current enterprise;
- Key production, technical or funding barriers mentor encountered and how they overcame them; and
- Other organizations or programs the mentor found helpful as they developed their business.



The Connecting Kentucky Veterans to Agriculture Opportunities (Kentucky AgVets) program is funded by the U.S. Department of Agriculture's National Institute of Food and Agriculture (NIFA). The Kentucky AgVets Program was one of 17 projects that are designed to help equip military veterans with skills, training, and experience for careers in food and agriculture. For more information, please visit www.kcard.info/kentucky-agvets.



emember your first couple of years in your sheep or goat Aoperation? Ever have some nerve wracking experiences and times when you just really needed to talk to someone? Or, maybe you did have a mentor available that helped make the nerve wracking moments much easier to handle with just a simple phone call or email?



KSWPA and KGPA need your help! With the increasing population of goats and sheep in our state, there are lots of people who could benefit from your knowledge. Consider becoming a mentor so that we can continue to strengthen and grow our industries.



MENTOR JOB DESCRIPTION

A KSWPA and KGPA Mentor is a person who:

- has a passion for the sheep and goat industries in the nation, and more specifically in Kentucky
- ♦ be a person that is willing to help other producers become successful in their operations
- ♦ will give time and talent to new producers to help the new producer implement management practices into his/her operation that will ultimately benefit the new producer

Qualifications:

- Mentors must be a KSWPA or KGPA member
- Mentors must have been in the sheep or goat industries for a minimum of 5 years
- ♦ Mentors can have backgrounds in meat, dairy and fiber operations
- Mentors must be willing to provide contact information to new members seeking a mentor

To become a Mentor, complete the application below and mail to KSGDO, PO Box 4709 Frankfort, KY 40604, or go to www.kysheepandgoat.org/become-a-mentor

						
Mentorship Application						
Name:	Farm Name:					
County:	Years in Business:					
Type of Operation (commerce Breeds:	cial, purebred, dairy, fiber, etc.):					
Email:	Phone:()					
Comments (anything else yo	ou want people to know):					



Kentucky Natural Fiber Center Opens at Mustard Seed Hill in Millersburg

Non-profit Supports and Educates Kentucky Fiber Artists; Farmers

December 13, 2021, Millersburg, Kentucky

he Kentucky Natural Fiber Center, a project of the Kentucky Sheep and Goat Development Office with funding by the Kentucky Office of Ag Policy, has opened in Millersburg on the campus of Mustard Seed Hill.

Launched officially on November 27 in conjunction with the opening of the 2021 Christmas at Mustard Seed Hill event, the KNFC is aimed at nurturing and promoting Kentucky fiber artisans and their works,

providing educational opportunities for those interested in learning fiber arts and connecting the artists with local farmers who produce the fiber they need in order to create.

"We would like to thank everyone who stopped by our open house this past month of December," said KNFC Director Sarabeth Parido. "Everyone enjoyed the demos done in conjunction with Kentucky Wool Works and others that allowed folks to see fiber artisans at work creating. Vendors—our affiliate Kentucky Fiber Trail artists and farmers—were also set up with their wares so those attending could finish up a little Christmas shopping while they visited. And children who attended had the opportunity to make a fun fiber themed Christmas ornament."

Beginning just after the first of the year the KNFC will host classes, trainings, conferences and vending events for both established and aspiring creators and crafters.

The first in a series of wool and shepherding courses called "Living Your Lamb-tastic Life" will kick off January 21st and 28th. These beginner's short courses—taken together or ala carte—will introduce attendees to the benefits of adding sheep for meat and fiber production.

A fiber retreat—Yarnia Unleashed—will also be held the first weekend of February with lodging available on the second floor of the newly restored McIntyre Hall at Mustard Seed Hill. This retreat will be a relaxing getaway for fiber enthusiasts and crafters to gather together and work on their projects, teach each other new techniques and just enjoy a respite from the winter doldrums. The exquisitely renovated B&B lodging provides ample but cozy communal space to interact in a building shared with the KNFC classrooms and studios where fiber activities will also be happening.

More information and registrations available on the Kentucky Natural Fiber Center website at www.kentuckynaturalfiber.com under the workshops tab.

Yarnia Unleashed-THE KENTUCKY NATURAL FIBER CENTER February 4-6. 2022

For more information, contact: Sarabeth Parido at (859) 771-7442 or sarabeth@kentuckysheepandfiber.com

WE WILL BEGIN LAMBING MID DECEMBER WITH LAMBS FROM THE TWO FLOCK SIRES BELOW. 3707 STILESVILLE RD (606) 271-1812 KEVINSTEWART@REAGAN.COM SCIENCE HILL, KY 42553





Kentucky Sheep and Goat Check-Off Program

Report form for remittance of amount due for all sheep and/or goats

State:		Zip:			
Fax:	Fax: E-m				
The following is a report on funds collected on sheep and/or goats for the month(s) of, 20					
Value of Animals	X Rate	Sheep Check-Off Due			
	X .005				
Value of Animals	X Rate	Goat Check-Off Due			
	X .005				
Total Remitted					
nis report with a chec	k made paya	ble to:			
KY Sheep and Goat Check-Off c/o KSGDO PO Box 4709					
Frankfort, KY 40604					
This report and assessments must be remitted monthly unless average gross sales of sheep and/or goats is less than \$1,000 per month, then reports and assessments may be remitted quarterly. Please return by the 15th of the month following the month or quarter of the remittance.					
To the best of my knowledge the above information is correct and accurate. Under penalty of law, false information or failure to report my result in both civil and criminal penalties.					
Signature		Date Revised 1/3/2011			
	State: Fax: Ort on funds collected Value of Animals Value of Animals Total Ren A check KY Sheep and Goat of the collected of the remitted monthly unless a corts and assessments may be respected or quarter of the remittance. The state: Total Ren Total Ren	Value of Animals X Rate X .005 Value of Animals X Rate X .005 Total Remitted nis report with a check made paya KY Sheep and Goat Check-Off c/o KSGDO PO Box 4709 Frankfort, KY 40604 st be remitted monthly unless average gross sales corts and assessments may be remitted quarterly. or quarter of the remittance. e above information is correct and accurate. Undersult in both civil and criminal penalties.			

HEALTH & MANAGEMENT

Abortions in Sheep and Goats: What to Do and How to Protect Yourself

by Jessy Shanks, **UT** Extension Specialist Small Ruminant and Youth Programs

reeding season is over for most and it's time to start preparing for lambing and kidding. Most producers prepare by gathering the needed supplies and getting areas of the barn ready for this exciting time of year. Lambing/kidding pens are constructed, medicines obtained, barns are cleaned out, and hopefully gloves are purchased. I say hopefully because some people tend to overlook the importance of personal protective equipment, or PPE for short, on livestock operations. Trust me when I say that you will want to wear gloves when assisting your sheep or goats with lambing/kidding after you read this article.

Late term abortions in sheep and goats are quite common, more so than in other livestock species. This is why sheep and goat producers must be vigilant in the detection of abortions, and in the control of such cases. There are many causes of abortion and several of these bacterial and viral agents can infect humans. Abortion rates for small

ruminants are usually in the neighborhood of 5%, with less than 5% being great, and more than 5% being cause for concern. An "abortion storm" is characterized by 20% or greater loss of the lamb or kid crop and can be quite devastating. Hopefully your rates never exceed 5%, but it is always best to be prepared for an increase. So as a producer if you have one to two abortions per year (under 5% of your flock or herd) there is not much cause for concern. If this number jumps above 5% then it's time to take action and find out what the cause is.

It is essential to work with your veterinarian to diagnose and treat causes of abortion. Early abortions may or may not be seen by the producer, so those often go undetected. You may never see anything except a return to estrus, or you might see bloody vaginal discharge. Late term abortions are most commonly detected because we can see the fetus once it is delivered (usually the final two months of gestation). It is important to have your veterinarian perform a necropsy on aborted fetuses and their associated tissues (placenta). There are also laboratories and veterinary schools that can perform necropsies also. This is a great way to determine what caused the abortion and to help develop the next steps to treat other females who may be affected. Results are not always set in stone, but it is definitely worth the effort



to figure out what happened. If your veterinarian cannot perform the necropsy immediately it is best to put the fetus and any associated tissues in a trash bag and put it on ice. Never freeze these specimens and do not leave them outside (even in cold weather). Tissues like this can decompose quickly and this will make it harder to determine what bacteria or other agents might have been present in the uterus. So please do not take a carcass, or tissues for necropsy that have been sitting at the barn for several days. Your veterinarian will not be happy with decomposing tissues! Once your veterinarian determines the cause of abortion, or lack of cause, he/she can help you with the next steps to prevent further incidence of disease.

When handling aborted fetal tissues and the fetus itself you must be very careful and aware of the risk for zoonotic disease transmission. Wear appropriate PPE such as palpation sleeves, gloves (nitrile or latex), clothes such as coveralls you can easily remove and wash, and rubber boots. Eye protection and face masks are also good additions to help keep you safe. You may be exposed to various bacterial agents and viruses during your work at the barn, but in a concentrated area (placental tissues/aborted fetus) these same bacteria and viruses can become especially dangerous. Pregnant women and immunocompromised individuals (cancer patients, those on medication that suppresses the immune system, etc.) should never handle aborted fetuses or tissues. Children really shouldn't handle them either to keep them safe. Abortive agents in sheep and goats can cause abortion in humans as well so it is best to never expose pregnant women to these dangers. These individuals should also never handle

soiled towels, clothes, boots, etc. that could be contaminated.

If you do suspect that you have a female that is aborting or has aborted it is best to isolate her from the rest of the herd or flock. Any tissue or fetuses that are found should be submitted for necropsy as quickly as possible. I hope you never have to deal with these types of situations, but it is important to be prepared on the front end in case it ever does happen to you. So buy those gloves and any other items of personal protective equipment that you think you might need. Put those items to good use if you have to assist with lambing/ kidding. At the very minimum please wear gloves to protect yourself! Frequent hand washing and not eating/drinking in the barn are also good practices that can help keep you, your family, and any employees you might have safe and healthy. It is easy to forget how vulnerable we are to the same diseases that affect our sheep and goats, but it is not a lesson that you want to learn the hard way. Contact your local county extension agent, your veterinarian, or myself (jharri50@utk.edu) if you have further questions about abortions in sheep and goats or ways to stay healthy during lambing/kidding season.

Jessy Shanks, is the Small Ruminant and Youth Programs Specialist at the University of Tennessee, Knoxville. Jessy raises Southdown and Dorper sheep with her husband and daughter just below Knoxville. Her background is in reproductive physiology and she enjoys teaching producers and youth about small ruminants in any way possible.

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Bluetongue

What is bluetongue and what causes it?

Bluetongue is a non-contagious, viral disease spread by biting insects. It affects species of ruminants, particularly sheep. Bluetongue causes many different symptoms in affected animals, including ulcers, sores, painful hooves, lameness and reproductive problems. Affected animals can have swelling of the tongue ("bluetongue") which can cause breathing difficulties. The disease occurs worldwide. In the United States, the disease occurs in the southern and western states.

What animals get bluetongue?

Bluetongue virus affects many domestic and wild ruminants. The disease is seen most often in sheep, occasionally in goats, and rarely in cattle. Severe disease can also occur in wild ruminants, such as white-tailed deer, pronghorn, and desert bighorn sheep.

How can my animal get bluetongue?

Bluetongue virus is spread by insects called biting midges (Culicoides spp.). (vector). Other biting insects, such as ticks or sheep keds, may also transfer the virus. Bluetongue is not contagious and is not spread by contact between animals. However, the virus may be spread by contaminated objects (fomites), such as surgical equipment and needles. Bluetonque virus can be transfered from the dam during pregnancy to the fetus. The virus can be found in semen, but sexual transmission does not appear to be a major route of infection.

How does bluetongue affect my animal?

Many animals infected with the bluetonaue virus do not show sians of disease. Some animals, particularly sheep, can develop serious disease and may even die. Signs of bluetongue include fever, excessive salivation, depression, and difficulty breathing. Animals may have nasal discharge and reddened and ulcerated muzzle. lips, and ears. The lips and tongue may be very swollen, causing the tongue to stick out from the mouth; the tongue is often bluish in color, giving the disease its name. Pregnant ewes infected during the first trimester may have reproductive problems, such as resorption, abortion or birth of "dummy lambs". The hooves are often very painful, making animals reluctant to move, and in some cases the hooves may actually slough off. Sheep that do survive can lose some or all of their wool.

Can I get bluetongue?

No. Bluetongue is not a significant threat to human health.



Who should I contact if I suspect bluetongue?

Contact your veterinarian immediately if you suspect your animal has bluetongue. It is a disease that is monitored closely by veterinarians in the United States. Suspicion of disease requires immediate attention.

How can I protect my animals from bluetongue?

Implement insect control and prevention measures to reduce the the spread of disease by the vector. This may include destroying insect habitat, use of insecticides, or moving animals into barns during the vector's peak activity time (dusk until dawn).

Any needles and surgical equipment used with animals suspected of having bluetongue should be considered contaminated and disposed of properly.

Vaccines are available for animals deemed to be at high risk of contracting bluetongue, however, these vaccines are not without risk.

For More Information

CFSPH Technical Fact Sheets. Bluetongue at http://www.cfsph.iastate.edu/DiseaseInfo/

The Merck Veterinary Manual at http://www.merckvetmanual.com/mvm/index.jsp

United States Animal Health Association.
Foreign Animal Diseases at http://
www.aphis.usda.gov/emergency_response/downloads/nahems/fad.pdf



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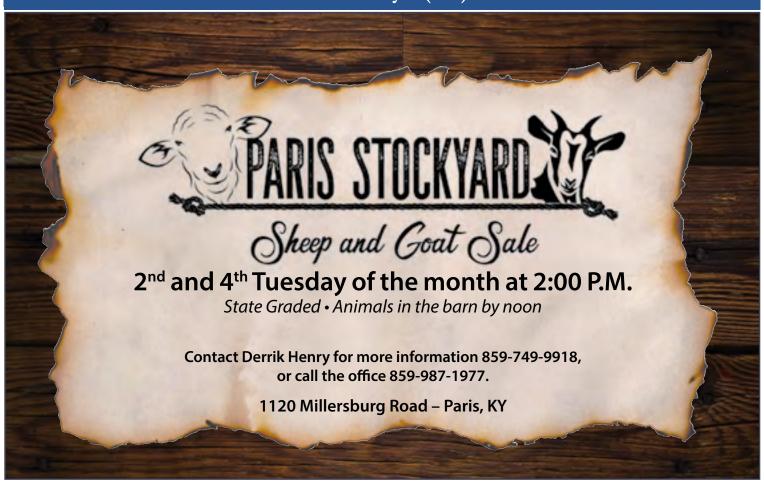
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